

**From:** [Wilson, Ashley](#)  
**To:** [Wagner, Christine](#)  
**Cc:** **Non-responsive based on revised scope**  
**Subject:** Case# 47768, SDG# C0AD9 - Validated Data for Shiloh Church Road Site  
**Date:** Wednesday, October 03, 2018 12:14:00 PM  
**Attachments:** [47768 COAD9 ltr.pdf](#)  
[image001.png](#)  
[47768 COAD9 DVR.pdf](#)  
[47768 COAD9 SSR.pdf](#)  
[EQuIS 1\\_47768 COAD9 Validated.xls](#)  
[EQuIS 2\\_47768 COAD9 Validated.xls](#)  
[EQuIS 3\\_47768 COAD9 Validated.xls](#)  
[EQuIS 47768 COAD9 Validated.xls](#)

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Christine Wagner  
US EPA Region 3  
1650 Arch Street  
Philadelphia, PA 19103-2029

Christine,

Attached to this message you will find electronic files containing the validation report and validated data for Shiloh Church Road Site, Case# 47768, SDG# C0AD9. The validation of this case was completed by the Region III Environmental Services Assistance Team (ESAT).

Please contact ESAT's RPO, Brandon McDonald by phone at 410-305-2607 or e-mail at [McDonald.Brandon@epa.gov](mailto:McDonald.Brandon@epa.gov) if additional assistance is needed.

TO # 0002                    TDF # 0818132



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Ashley Wilson | Research Technician | 410-305-3013 | [Wilson.Ashley@epa.gov](mailto:Wilson.Ashley@epa.gov)  
ICF | 701 Mapes Road, Fort Meade, MD 20755-5350

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION III

Environmental Sciences Center

701 Mapes Road

Fort Meade, Maryland 20755-5350



DATE: 10/2/2018

SUBJECT: Region III Data QA Review

FROM: Brandon McDonald  
Region III ESAT RPO (3EA22)

A handwritten signature in blue ink that appears to read "Brandon McDonald". It is positioned above a large, light blue oval.

TO: CHRIS WAGNER  
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the SHILOH CHURCH ROAD SITE site for RAS# 47768; SDG# C0AD9 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III EAID.

If you have any questions regarding this review, please call Brandon McDonald at (410) 305-2607 or you can call Eric Graybill at (410)-305-2665.

Attachment

cc:

Non-responsive based on revised scope  
WESTON SOLUTIONS)  
Non-responsive based on revised scope  
(WESTON SOLUTIONS)

TO: #0002 TDF: #0818132

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ICF  
ESAT Region 3  
US Environmental Protection Agency Environmental Science Center  
701 Mapes Road Ft. Meade, MD 20755-5350  
Phone 410-305-3012

**Date:** September 27, 2018

**To:** Brandon McDonald  
ESAT Region 3 Project Officer

**From:** [REDACTED]  
Validator

[REDACTED]  
Reviewer

**Subject:** Organic Data Validation (S4VEM)  
Shilo Church Road  
47768 COAD9

### Overview

This data package consisted of twenty (20) soil samples analyzed for volatile, semivolatile, and Aroclor analytes including one (1) field duplicate pair analyzed for volatile and semivolatile analytes and one (1) trip blank analyzed for trace volatile analytes.

Analyses were performed by Chemtech Consulting Group (CHM) through the Contract Laboratory Program (CLP) according to Statement of Work (SOW) SOM02.4.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VEM (Stage\_4\_Validation\_Electronic\_Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package available through the EXES Data Manager dated August 27, 2018.

Trace volatile trip blank COAG2 was used in evaluating blank contamination for the associated samples in this case based on sampling date. This blank was analyzed in sample delivery group (SDG) COAG2.

### Summary

No significant data quality outliers or technical deficiencies were identified that required rejection of sample results. Less significant data quality outliers resulting in estimation of sample results were identified including, but not limited to, surrogate recovery and internal standard (IS) area response as detailed below.

### Minor Problems

Area responses for the following IS were outside the lower control limits for the samples listed below. These samples were reanalyzed yielding similar results. The reanalyzed samples were reported. Analytes associated with this IS were non-detect in these samples. Quantitation limits are estimated and have been qualified "UJ".

Fraction	Internal Standard	Affected Samples
Volatile	1,4-Dichlorobenzene-d4	COAF8, COAF9

The percent recoveries for the following surrogates were outside the upper control limit on one column for the sample listed below. Detected results in the sample have been qualified "J". Quantitation limits are not qualified based on this outlier.

Fraction	Surrogate	Affected Samples
Aroclor	Tetrachloro-m-xylene, Decachlorobiphenyl	COAF1, COAF1DL

### Notes

Target analytes detected at concentrations below Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J" unless qualified "U" for blank contamination.

The volatile method blanks and storage blank were free from contamination except for methylene chloride. Method blank VBLK97 and storage blank VHBLK01 reported detected concentrations of methylene chloride greater than the CRQL. Detected concentrations for methylene chloride in samples COAF8 and COAF9 are greater than 2x the blank results and are not qualified. Trip blank COAG2 was free from contamination.

The semivolatile method blank and Aroclor method blank were free from contamination.

DMC 1,2-Dichloropropane-d6 percent recoveries were outside the upper control limits for the analysis of samples COAF8 and COAF9. The analytes associated with this DMC were not reported from these analyses. No data were qualified based on these findings.

DMC 2-hexanone-d5 percent recovery was outside the lower control limit for the analysis of sample COAF9. The analytes associated with this DMC were not reported from this analysis. No data was qualified based on this finding.

The following analyte failed percent relative standard deviation (%RSD) criteria in the initial calibration standard listed below. Affected analyte was non-detect in the associated samples. Quantitation limits are not qualified based on this outlier.

Fraction	Standard ID	Affected Analytes	Associated Samples
Semivolatile	SSTD00501	Fluoranthene	All samples

Concentrations for the following target analyte exceeded the calibration range in the initial analysis of samples listed below. The samples were reanalyzed at dilutions listed in order to quantitate the analyte within the calibration range. Results for the analyte are reported from the dilutions. There is no indication that this exceedance issue impacted subsequent sample analyses.

Fraction	Sample	DF	Affected Analytes
Aroclor	COAF1	5X	Aroclor-1254
	COAF5	500,000X	Aroclor-1254

Due to high concentration of Aroclor-1254 in sample COAF5, it was analyzed initially at a 10,000-fold dilution. CRQLs are elevated in this sample due to the dilution. No data were qualified based on surrogate recoveries outside the lower control limits.

Laboratory Control Sample (LCS) analyzed in the Aroclor fraction reported recoveries of spiked analytes within control limits.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses of sample COAG1 in the Aroclor fraction reported recoveries and relative percent differences (RPDs) for spiked analytes within control limits except for Aroclor-1016 recovery for the MS on one column. No data was qualified based on this finding.

Results reported for field duplicate pair COAF8/COAF9 were comparable except for methylene chloride. No data were qualified based on field duplicate precision.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated by the reviewer and found to be accurate and consistent. No action was taken by the reviewer based on manual integrations.

Tentatively Identified Compounds (TICs) are not reviewed by data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

**Glossary of Organic Data Qualifier Codes**


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<b>Validation Qualifiers</b>	In order of descending precedence. Only one of these qualifiers may apply to any result.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
<b>Additional Qualifiers</b>	Additional qualifiers may be combined with other qualifiers.
N	The analyte has been "tentatively identified" or "presumptively" as present.
B	The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers.
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.

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# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: ABLK61	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	33	U	ug/kg	33	U	1.0	YES	S4VEM
Aroclor-1221	Target	33	U	ug/kg	33	U	1.0	YES	S4VEM
Aroclor-1232	Target	33	U	ug/kg	33	U	1.0	YES	S4VEM
Aroclor-1242	Target	33	U	ug/kg	33	U	1.0	YES	S4VEM
Aroclor-1248	Target	33	U	ug/kg	33	U	1.0	YES	S4VEM
Aroclor-1254	Target	33	U	ug/kg	33	U	1.0	YES	S4VEM
Aroclor-1260	Target	33	U	ug/kg	33	U	1.0	YES	S4VEM
Aroclor-1262	Target	33	U	ug/kg	33	U	1.0	YES	S4VEM
Aroclor-1268	Target	33	U	ug/kg	33	U	1.0	YES	S4VEM

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: ALCS61	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Spike	34		ug/kg	34		1.0	YES	S4VEM
Aroclor-1221	Target	33	U	ug/kg	33	U	1.0	YES	S4VEM
Aroclor-1232	Target	33	U	ug/kg	33	U	1.0	YES	S4VEM
Aroclor-1242	Target	33	U	ug/kg	33	U	1.0	YES	S4VEM
Aroclor-1248	Target	33	U	ug/kg	33	U	1.0	YES	S4VEM
Aroclor-1254	Target	33	U	ug/kg	33	U	1.0	YES	S4VEM
Aroclor-1260	Spike	34		ug/kg	34		1.0	YES	S4VEM
Aroclor-1262	Target	33	U	ug/kg	33	U	1.0	YES	S4VEM
Aroclor-1268	Target	33	U	ug/kg	33	U	1.0	YES	S4VEM

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AD8	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 07/31/2018	Sample Time: 10:30:00
% Moisture:	% Solids: 81.7		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1221	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1232	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1242	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1248	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1254	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1260	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1262	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1268	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AD8	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 07/31/2018	Sample Time: 10:30:00
% Moisture:		% Solids: 81.7	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	82	U	ug/kg	82	U	1.0	YES	S4VEM
Benzaldehyde	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Phenol	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
2-Chlorophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2-Methylphenol	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Acetophenone	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
4-Methylphenol	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Hexachloroethane	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Nitrobenzene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Isophorone	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2-Nitrophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Naphthalene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
4-Chloroaniline	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Caprolactam	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2-Nitroaniline	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Dimethylphthalate	Target	600		ug/kg	600		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Acenaphthylene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
3-Nitroaniline	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Acenaphthene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
4-Nitrophenol	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Dibenzofuran	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Diethylphthalate	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Fluorene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
4-Nitroaniline	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Atrazine	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Pentachlorophenol	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Phenanthrene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Anthracene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Carbazole	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Fluoranthene	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Pyrene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Chrysene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Total Alkanes	TIC	8900		ug/kg	8900		1.0	YES	NV
trans-Decalin, 2-methyl-	TIC	110	J	ug/kg	110	J	1.0	YES	NV
Bicyclo[3.1.0]hexan-2-one, 5-(1-me	TIC	160	J	ug/kg	160	J	1.0	YES	NV
unknown-01	TIC	160	J	ug/kg	160	J	1.0	YES	NV
Ethanone, 1-(1-methylcyclohexyl)-	TIC	210	J	ug/kg	210	J	1.0	YES	NV
unknown-02	TIC	440	J	ug/kg	440	J	1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AD9	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 07/31/2018	Sample Time: 10:50:00
% Moisture:		% Solids: 81.1	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1221	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1232	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1242	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1248	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1254	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1260	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1262	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1268	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AD9	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 07/31/2018	Sample Time: 10:50:00
% Moisture:		% Solids: 81.1	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	82	U	ug/kg	82	U	1.0	YES	S4VEM
Benzaldehyde	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
Phenol	Target	47	J	ug/kg	47	J	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
2-Chlorophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2-Methylphenol	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
Acetophenone	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
4-Methylphenol	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Hexachloroethane	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Nitrobenzene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Isophorone	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2-Nitrophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Naphthalene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
4-Chloroaniline	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Caprolactam	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2-Nitroaniline	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Dimethylphthalate	Target	680		ug/kg	680		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Acenaphthylene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
3-Nitroaniline	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
Acenaphthene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
4-Nitrophenol	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
Dibenzofuran	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Diethylphthalate	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Fluorene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
4-Nitroaniline	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Atrazine	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
Pentachlorophenol	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
Phenanthrene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Anthracene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Fluoranthene	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
Pyrene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Chrysene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	410	U	ug/kg	410	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Octadecanoic acid	TIC	140	J	ug/kg	140	J	1.0	YES	NV
n-Hexadecanoic acid	TIC	250	J	ug/kg	250	J	1.0	YES	NV
Total Alkanes	TIC			ug/kg			1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AE1	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 07/31/2018	Sample Time: 12:55:00
% Moisture:		% Solids: 92.1	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	73	U	ug/kg	73	U	1.0	YES	S4VEM
Benzaldehyde	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Phenol	Target	37	J	ug/kg	37	J	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
2-Chlorophenol	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2-Methylphenol	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Acetophenone	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
4-Methylphenol	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Hexachloroethane	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Nitrobenzene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Isophorone	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2-Nitrophenol	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Naphthalene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
4-Chloroaniline	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Caprolactam	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2-Nitroaniline	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Dimethylphthalate	Target	460		ug/kg	460		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Acenaphthylene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
3-Nitroaniline	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Acenaphthene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
4-Nitrophenol	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Dibenzofuran	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Diethylphthalate	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Fluorene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
4-Nitroaniline	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Atrazine	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Pentachlorophenol	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Phenanthrene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Anthracene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Fluoranthene	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Pyrene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Chrysene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Total Alkanes	TIC	2600		ug/kg	2600		1.0	YES	NV
9-Octadecenamide, (Z)-	TIC	1200	J	ug/kg	1200	J	1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AE3	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 07/31/2018	Sample Time: 15:10:00
% Moisture:	% Solids: 70.9		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM
Aroclor-1221	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM
Aroclor-1232	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM
Aroclor-1242	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM
Aroclor-1248	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM
Aroclor-1254	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM
Aroclor-1260	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM
Aroclor-1262	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM
Aroclor-1268	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AE3	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 07/31/2018	Sample Time: 15:10:00
% Moisture:		% Solids: 70.9	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	94	U	ug/kg	94	U	1.0	YES	S4VEM
Benzaldehyde	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Phenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
2-Chlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Methylphenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Acetophenone	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
4-Methylphenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Hexachloroethane	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Nitrobenzene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Isophorone	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Nitrophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Naphthalene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
4-Chloroaniline	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Caprolactam	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Nitroaniline	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Dimethylphthalate	Target	560		ug/kg	560		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Acenaphthylene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
3-Nitroaniline	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Acenaphthene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
4-Nitrophenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Dibenzofuran	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Diethylphthalate	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Fluorene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
4-Nitroaniline	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Atrazine	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Pentachlorophenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Phenanthrene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Anthracene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Fluoranthene	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Pyrene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Chrysene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Squalene	TIC	130	J	ug/kg	130	J	1.0	YES	NV
Glycerol tricaprylate	TIC	100	J	ug/kg	100	J	1.0	YES	NV
Total Alkanes	TIC			ug/kg			1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AE4

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: SCR

pH:

Sample Date: 07/31/2018

Sample Time: 14:45:00

% Moisture:

% Solids: 76.3

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	43	U	ug/kg	43	U	1.0	YES	S4VEM
Aroclor-1221	Target	43	U	ug/kg	43	U	1.0	YES	S4VEM
Aroclor-1232	Target	43	U	ug/kg	43	U	1.0	YES	S4VEM
Aroclor-1242	Target	43	U	ug/kg	43	U	1.0	YES	S4VEM
Aroclor-1248	Target	43	U	ug/kg	43	U	1.0	YES	S4VEM
Aroclor-1254	Target	19	J	ug/kg	19	J	1.0	YES	S4VEM
Aroclor-1260	Target	43	U	ug/kg	43	U	1.0	YES	S4VEM
Aroclor-1262	Target	43	U	ug/kg	43	U	1.0	YES	S4VEM
Aroclor-1268	Target	43	U	ug/kg	43	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AE4	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 07/31/2018	Sample Time: 14:45:00
% Moisture:		% Solids: 76.3	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	88	U	ug/kg	88	U	1.0	YES	S4VEM
Benzaldehyde	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
Phenol	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
2-Chlorophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2-Methylphenol	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
Acetophenone	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
4-Methylphenol	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Hexachloroethane	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Nitrobenzene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Isophorone	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2-Nitrophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Naphthalene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
4-Chloroaniline	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Caprolactam	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2-Nitroaniline	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Dimethylphthalate	Target	440		ug/kg	440		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Acenaphthylene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
3-Nitroaniline	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
Acenaphthene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
4-Nitrophenol	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
Dibenzofuran	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Diethylphthalate	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Fluorene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
4-Nitroaniline	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Atrazine	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
Pentachlorophenol	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
Phenanthrene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Anthracene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Fluoranthene	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
Pyrene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Chrysene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	430	U	ug/kg	430	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
n-Hexadecanoic acid	TIC	130	J	ug/kg	130	J	1.0	YES	NV
Total Alkanes	TIC			ug/kg			1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AES	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 07/31/2018	Sample Time: 15:45:00
% Moisture:		% Solids: 86.6	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1221	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1232	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1242	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1248	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1254	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1260	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1262	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1268	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AES	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 07/31/2018	Sample Time: 15:45:00
% Moisture:		% Solids: 86.6	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	77	U	ug/kg	77	U	1.0	YES	S4VEM
Benzaldehyde	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Phenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
2-Chlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2-Methylphenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Acetophenone	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
4-Methylphenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Hexachloroethane	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Nitrobenzene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Isophorone	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2-Nitrophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Naphthalene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
4-Chloroaniline	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Caprolactam	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2-Nitroaniline	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Dimethylphthalate	Target	380		ug/kg	380		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Acenaphthylene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
3-Nitroaniline	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Acenaphthene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
4-Nitrophenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Dibenzofuran	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Diethylphthalate	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Fluorene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
4-Nitroaniline	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Atrazine	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Pentachlorophenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Phenanthrene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Anthracene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Carbazole	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Fluoranthene	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Pyrene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Chrysene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Bicyclo[5.2.0]nonane, 2-methylene-	TIC	90	J	ug/kg	90	J	1.0	YES	NV
Total Alkanes	TIC			ug/kg			1.0	YES	NV
Cinnamyl cinnamate	TIC	160	J	ug/kg	160	J	1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AE6	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 07/31/2018	Sample Time: 16:05:00
% Moisture:	% Solids: 87.3		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1221	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1232	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1242	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1248	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1254	Target	8.4	J	ug/kg	8.4	J	1.0	YES	S4VEM
Aroclor-1260	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1262	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1268	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AE6	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 07/31/2018	Sample Time: 16:05:00
% Moisture:		% Solids: 87.3	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	76	U	ug/kg	76	U	1.0	YES	S4VEM
Benzaldehyde	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Phenol	Target	41	J	ug/kg	41	J	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
2-Chlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2-Methylphenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Acetophenone	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
4-Methylphenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Hexachloroethane	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Nitrobenzene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Isophorone	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2-Nitrophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Naphthalene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
4-Chloroaniline	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Caprolactam	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2-Nitroaniline	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Dimethylphthalate	Target	470		ug/kg	470		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Acenaphthylene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
3-Nitroaniline	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Acenaphthene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
4-Nitrophenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Dibenzofuran	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Diethylphthalate	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Fluorene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
4-Nitroaniline	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Atrazine	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Pentachlorophenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Phenanthrene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Anthracene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Carbazole	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Fluoranthene	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Pyrene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Chrysene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Caprylic anhydride	TIC	260	J	ug/kg	260	J	1.0	YES	NV
Sarcosine, N-(1-naphthoyl)-, octyl	TIC	340	J	ug/kg	340	J	1.0	YES	NV
Total Alkanes	TIC			ug/kg			1.0	YES	NV
unknown-01	TIC	530	J	ug/kg	530	J	1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AE7	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 09:00:00
% Moisture:		% Solids: 89.6	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	37	U	ug/kg	37	U	1.0	YES	S4VEM
Aroclor-1221	Target	37	U	ug/kg	37	U	1.0	YES	S4VEM
Aroclor-1232	Target	37	U	ug/kg	37	U	1.0	YES	S4VEM
Aroclor-1242	Target	37	U	ug/kg	37	U	1.0	YES	S4VEM
Aroclor-1248	Target	37	U	ug/kg	37	U	1.0	YES	S4VEM
Aroclor-1254	Target	17	J	ug/kg	17	J	1.0	YES	S4VEM
Aroclor-1260	Target	37	U	ug/kg	37	U	1.0	YES	S4VEM
Aroclor-1262	Target	37	U	ug/kg	37	U	1.0	YES	S4VEM
Aroclor-1268	Target	37	U	ug/kg	37	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AE7	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 09:00:00
% Moisture:		% Solids: 89.6	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	75	U	ug/kg	75	U	1.0	YES	S4VEM
Benzaldehyde	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
Phenol	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
2-Chlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2-Methylphenol	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
Acetophenone	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
4-Methylphenol	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Hexachloroethane	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Nitrobenzene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Isophorone	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2-Nitrophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Naphthalene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
4-Chloroaniline	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Caprolactam	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2-Nitroaniline	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Dimethylphthalate	Target	260		ug/kg	260		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Acenaphthylene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
3-Nitroaniline	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
Acenaphthene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
4-Nitrophenol	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
Dibenzofuran	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Diethylphthalate	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Fluorene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
4-Nitroaniline	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Atrazine	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
Pentachlorophenol	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
Phenanthrene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Anthracene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Fluoranthene	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
Pyrene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Chrysene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	370	U	ug/kg	370	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/kg			1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AE8	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 09:10:00
% Moisture:		% Solids: 92.8	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	35	U	ug/kg	35	U	1.0	YES	S4VEM
Aroclor-1221	Target	35	U	ug/kg	35	U	1.0	YES	S4VEM
Aroclor-1232	Target	35	U	ug/kg	35	U	1.0	YES	S4VEM
Aroclor-1242	Target	35	U	ug/kg	35	U	1.0	YES	S4VEM
Aroclor-1248	Target	35	U	ug/kg	35	U	1.0	YES	S4VEM
Aroclor-1254	Target	35	U	ug/kg	35	U	1.0	YES	S4VEM
Aroclor-1260	Target	35	U	ug/kg	35	U	1.0	YES	S4VEM
Aroclor-1262	Target	35	U	ug/kg	35	U	1.0	YES	S4VEM
Aroclor-1268	Target	35	U	ug/kg	35	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AE8	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 09:10:00
% Moisture:		% Solids: 92.8	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	72	U	ug/kg	72	U	1.0	YES	S4VEM
Benzaldehyde	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Phenol	Target	40	J	ug/kg	40	J	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
2-Chlorophenol	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2-Methylphenol	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Acetophenone	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
4-Methylphenol	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Hexachloroethane	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Nitrobenzene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Isophorone	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2-Nitrophenol	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Naphthalene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
4-Chloroaniline	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Caprolactam	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2-Nitroaniline	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Dimethylphthalate	Target	380		ug/kg	380		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Acenaphthylene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
3-Nitroaniline	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Acenaphthene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
4-Nitrophenol	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Dibenzofuran	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Diethylphthalate	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Fluorene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
4-Nitroaniline	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Atrazine	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Pentachlorophenol	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Phenanthrene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Anthracene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Carbazole	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Fluoranthene	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Pyrene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Chrysene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	360	U	ug/kg	360	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	180	U	ug/kg	180	U	1.0	YES	S4VEM
Glycerol tricaprylate	TIC	490	J	ug/kg	490	J	1.0	YES	NV
n-Hexadecanoic acid	TIC	120	J	ug/kg	120	J	1.0	YES	NV
1-Hexadecanol	TIC	110	J	ug/kg	110	J	1.0	YES	NV
Sarcosine, N-(1-naphthoyl)-, octyl	TIC	310	J	ug/kg	310	J	1.0	YES	NV
Total Alkanes	TIC			ug/kg			1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AE9	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 09:25:00
% Moisture:	% Solids: 71.8		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM
Aroclor-1221	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM
Aroclor-1232	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM
Aroclor-1242	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM
Aroclor-1248	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM
Aroclor-1254	Target	6.6	J	ug/kg	6.6	J	1.0	YES	S4VEM
Aroclor-1260	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM
Aroclor-1262	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM
Aroclor-1268	Target	46	U	ug/kg	46	U	1.0	YES	S4VEM

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AE9	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 09:25:00
% Moisture:		% Solids: 71.8	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	93	U	ug/kg	93	U	1.0	YES	S4VEM
Benzaldehyde	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Phenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
2-Chlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Methylphenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Acetophenone	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
4-Methylphenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Hexachloroethane	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Nitrobenzene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Isophorone	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Nitrophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Naphthalene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
4-Chloroaniline	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Caprolactam	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Nitroaniline	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Dimethylphthalate	Target	360		ug/kg	360		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Acenaphthylene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
3-Nitroaniline	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Acenaphthene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
4-Nitrophenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Dibenzofuran	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Diethylphthalate	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Fluorene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
4-Nitroaniline	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Atrazine	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Pentachlorophenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Phenanthrene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Anthracene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Fluoranthene	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Pyrene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Chrysene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
unknown-01	TIC	100	J	ug/kg	100	J	1.0	YES	NV
Total Alkanes	TIC			ug/kg			1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AF0	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 09:35:00
% Moisture:	% Solids: 87.3		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1221	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1232	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1242	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1248	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1254	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1260	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1262	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM
Aroclor-1268	Target	38	U	ug/kg	38	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AF0	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 09:35:00
% Moisture:		% Solids: 87.3	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	76	U	ug/kg	76	U	1.0	YES	S4VEM
Benzaldehyde	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Phenol	Target	39	J	ug/kg	39	J	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
2-Chlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2-Methylphenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Acetophenone	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
4-Methylphenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Hexachloroethane	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Nitrobenzene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Isophorone	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2-Nitrophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Naphthalene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
4-Chloroaniline	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Caprolactam	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2-Nitroaniline	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Dimethylphthalate	Target	340		ug/kg	340		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Acenaphthylene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
3-Nitroaniline	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Acenaphthene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
4-Nitrophenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Dibenzofuran	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Diethylphthalate	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Fluorene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
4-Nitroaniline	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Atrazine	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Pentachlorophenol	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Phenanthrene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Anthracene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Carbazole	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Fluoranthene	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Pyrene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Chrysene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	380	U	ug/kg	380	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	190	U	ug/kg	190	U	1.0	YES	S4VEM
1,4-Dioxaspiro[4.4]nonane, 7-butyl	TIC	320	J	ug/kg	320	J	1.0	YES	NV
Total Alkanes	TIC			ug/kg			1.0	YES	NV
2-(1-Naphthyl)-4-(3,4,5-trimethoxy	TIC	220	J	ug/kg	220	J	1.0	YES	NV
unknown-01	TIC	160	J	ug/kg	160	J	1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AF1	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 10:20:00
% Moisture:		% Solids: 78.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	42	U	ug/kg	42	U	1.0	YES	S4VEM
Aroclor-1221	Target	42	U	ug/kg	42	U	1.0	YES	S4VEM
Aroclor-1232	Target	42	U	ug/kg	42	U	1.0	YES	S4VEM
Aroclor-1242	Target	42	U	ug/kg	42	U	1.0	YES	S4VEM
Aroclor-1248	Target	42	U	ug/kg	42	U	1.0	YES	S4VEM
Aroclor-1254	Target	2400	J	ug/kg	2400	D	5.0	YES	S4VEM
Aroclor-1260	Target	42	U	ug/kg	42	U	1.0	YES	S4VEM
Aroclor-1262	Target	42	U	ug/kg	42	U	1.0	YES	S4VEM
Aroclor-1268	Target	42	U	ug/kg	42	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AF1	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 10:20:00
% Moisture:		% Solids: 78.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	86	U	ug/kg	86	U	1.0	YES	S4VEM
Benzaldehyde	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Phenol	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
2-Chlorophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2-Methylphenol	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Acetophenone	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
4-Methylphenol	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Hexachloroethane	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Nitrobenzene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Isophorone	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2-Nitrophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Naphthalene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
4-Chloroaniline	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Caprolactam	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2-Nitroaniline	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Dimethylphthalate	Target	300		ug/kg	300		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Acenaphthylene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
3-Nitroaniline	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Acenaphthene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
4-Nitrophenol	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Dibenzofuran	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Diethylphthalate	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Fluorene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
4-Nitroaniline	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Atrazine	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Pentachlorophenol	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Phenanthrene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Anthracene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Carbazole	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Fluoranthene	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Pyrene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Chrysene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	130	J	ug/kg	130	J	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
1,1-Biphenyl, 2,3,3,4,6-pentach	TIC	170	J	ug/kg	170	J	1.0	YES	NV
n-Hexadecanoic acid	TIC	93	J	ug/kg	93	J	1.0	YES	NV
1,1-Biphenyl, 2,3,4,4,5-pentach	TIC	99	J	ug/kg	99	J	1.0	YES	NV
Phenol, 4,4-(1-methylethylidene)b	TIC	170	J	ug/kg	170	J	1.0	YES	NV
2,3,3,5,5-Pentachloro-1,1-biphe	TIC	120	J	ug/kg	120	J	1.0	YES	NV
2,3,4,4,5,6-Hexachloro-1,1-bip	TIC	99	J	ug/kg	99	J	1.0	YES	NV
1,1-Biphenyl, 2,2,4,6,6-Pentach	TIC	100	J	ug/kg	100	J	1.0	YES	NV
Total Alkanes	TIC	230		ug/kg	230		1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AF2	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 10:55:00
% Moisture:	% Solids: 78.3		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	42	U	ug/kg	42	U	1.0	YES	S4VEM
Aroclor-1221	Target	42	U	ug/kg	42	U	1.0	YES	S4VEM
Aroclor-1232	Target	42	U	ug/kg	42	U	1.0	YES	S4VEM
Aroclor-1242	Target	42	U	ug/kg	42	U	1.0	YES	S4VEM
Aroclor-1248	Target	42	U	ug/kg	42	U	1.0	YES	S4VEM
Aroclor-1254	Target	40	J	ug/kg	40	J	1.0	YES	S4VEM
Aroclor-1260	Target	42	U	ug/kg	42	U	1.0	YES	S4VEM
Aroclor-1262	Target	42	U	ug/kg	42	U	1.0	YES	S4VEM
Aroclor-1268	Target	42	U	ug/kg	42	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AF2	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 10:55:00
% Moisture:		% Solids: 78.3	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	85	U	ug/kg	85	U	1.0	YES	S4VEM
Benzaldehyde	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Phenol	Target	43	J	ug/kg	43	J	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
2-Chlorophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2-Methylphenol	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Acetophenone	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
4-Methylphenol	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Hexachloroethane	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Nitrobenzene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Isophorone	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2-Nitrophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Naphthalene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
4-Chloroaniline	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Caprolactam	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2-Nitroaniline	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Dimethylphthalate	Target	300		ug/kg	300		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Acenaphthylene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
3-Nitroaniline	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Acenaphthene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
4-Nitrophenol	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Dibenzofuran	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Diethylphthalate	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Fluorene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
4-Nitroaniline	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Atrazine	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Pentachlorophenol	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Phenanthrene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Anthracene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Fluoranthene	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Pyrene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Chrysene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	420	U	ug/kg	420	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	220	U	ug/kg	220	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/kg			1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AF3	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 10:35:00
% Moisture:		% Solids: 84.5	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1221	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1232	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1242	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1248	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1254	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1260	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1262	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1268	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AF3	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 10:35:00
% Moisture:		% Solids: 84.5	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	79	U	ug/kg	79	U	1.0	YES	S4VEM
Benzaldehyde	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Phenol	Target	58	J	ug/kg	58	J	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
2-Chlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2-Methylphenol	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Acetophenone	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
4-Methylphenol	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Hexachloroethane	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Nitrobenzene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Isophorone	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2-Nitrophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Naphthalene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
4-Chloroaniline	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Caprolactam	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2-Nitroaniline	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Dimethylphthalate	Target	380		ug/kg	380		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Acenaphthylene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
3-Nitroaniline	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Acenaphthene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
4-Nitrophenol	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Dibenzofuran	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Diethylphthalate	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Fluorene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
4-Nitroaniline	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Atrazine	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Pentachlorophenol	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Phenanthrene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Anthracene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Fluoranthene	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Pyrene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Chrysene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Octadecanoic acid	TIC	220	J	ug/kg	220	J	1.0	YES	NV
Total Alkanes	TIC	140		ug/kg	140		1.0	YES	NV
n-Hexadecanoic acid	TIC	380	J	ug/kg	380	J	1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AF4	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 11:05:00
% Moisture:	% Solids: 82.8		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1221	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1232	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1242	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1248	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1254	Target	28	J	ug/kg	28	J	1.0	YES	S4VEM
Aroclor-1260	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1262	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM
Aroclor-1268	Target	40	U	ug/kg	40	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AF4	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 11:05:00
% Moisture:		% Solids: 82.8	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	81	U	ug/kg	81	U	1.0	YES	S4VEM
Benzaldehyde	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Phenol	Target	55	J	ug/kg	55	J	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
2-Chlorophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2-Methylphenol	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Acetophenone	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
4-Methylphenol	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Hexachloroethane	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Nitrobenzene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Isophorone	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2-Nitrophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Naphthalene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
4-Chloroaniline	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Caprolactam	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2-Nitroaniline	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Dimethylphthalate	Target	390		ug/kg	390		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Acenaphthylene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
3-Nitroaniline	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Acenaphthene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
4-Nitrophenol	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Dibenzofuran	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Diethylphthalate	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Fluorene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
4-Nitroaniline	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Atrazine	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Pentachlorophenol	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Phenanthrene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Anthracene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Fluoranthene	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Pyrene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Chrysene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	400	U	ug/kg	400	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	210	U	ug/kg	210	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/kg			1.0	YES	NV
n-Hexadecanoic acid	TIC	120	J	ug/kg	120	J	1.0	YES	NV
Squalene	TIC	250	J	ug/kg	250	J	1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AF5

Method: Aroclors

Matrix: Soil

MA Number:

Sample Location: SCR

pH:

Sample Date: 08/01/2018

Sample Time: 11:00:00

% Moisture:

% Solids: 79.7

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	410000	U	ug/kg	410000	U	10000.0	YES	S4VEM
Aroclor-1221	Target	410000	U	ug/kg	410000	U	10000.0	YES	S4VEM
Aroclor-1232	Target	410000	U	ug/kg	410000	U	10000.0	YES	S4VEM
Aroclor-1242	Target	410000	U	ug/kg	410000	U	10000.0	YES	S4VEM
Aroclor-1248	Target	410000	U	ug/kg	410000	U	10000.0	YES	S4VEM
Aroclor-1254	Target	140000000		ug/kg	140000000	D	500000.0	YES	S4VEM
Aroclor-1260	Target	410000	U	ug/kg	410000	U	10000.0	YES	S4VEM
Aroclor-1262	Target	410000	U	ug/kg	410000	U	10000.0	YES	S4VEM
Aroclor-1268	Target	410000	U	ug/kg	410000	U	10000.0	YES	S4VEM

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AF8	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 17:15:00
% Moisture:		% Solids: 71.9	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	93	U	ug/kg	93	U	1.0	YES	S4VEM
Benzaldehyde	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Phenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
2-Chlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Methylphenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Acetophenone	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
4-Methylphenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Hexachloroethane	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Nitrobenzene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Isophorone	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Nitrophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Naphthalene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
4-Chloroaniline	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Caprolactam	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Nitroaniline	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Dimethylphthalate	Target	290		ug/kg	290		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Acenaphthylene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
3-Nitroaniline	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Acenaphthene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
4-Nitrophenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Dibenzofuran	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Diethylphthalate	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Fluorene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
4-Nitroaniline	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Atrazine	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Pentachlorophenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Phenanthrene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Anthracene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Fluoranthene	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Pyrene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Chrysene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/kg			1.0	YES	NV

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AF8	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 17:15:00
% Moisture:		% Solids: 71.9	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Chloromethane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Vinyl chloride	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Bromomethane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Chloroethane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Acetone	Target	13	U	ug/kg	13	U	1.0	YES	S4VEM
Carbon disulfide	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Methyl Acetate	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Methylene chloride	Target	30		ug/kg	30	B	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
2-Butanone	Target	13	U	ug/kg	13	U	1.0	YES	S4VEM
Bromochloromethane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Chloroform	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Cyclohexane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Benzene	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Trichloroethene	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Methylcyclohexane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Bromodichloromethane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	13	U	ug/kg	13	U	1.0	YES	S4VEM
Toluene	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Tetrachloroethene	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
2-Hexanone	Target	13	U	ug/kg	13	U	1.0	YES	S4VEM
Dibromochemicalmethane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Chlorobenzene	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Ethylbenzene	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
o-xylene	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
m,p-Xylene	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Styrene	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
Bromoform	Target	6.5	UJ	ug/kg	6.5	U	1.0	YES	S4VEM
Isopropylbenzene	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	6.5	U	ug/kg	6.5	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	6.5	UJ	ug/kg	6.5	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	6.5	UJ	ug/kg	6.5	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	6.5	UJ	ug/kg	6.5	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	6.5	UJ	ug/kg	6.5	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	6.5	UJ	ug/kg	6.5	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	6.5	UJ	ug/kg	6.5	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/kg			1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AF9	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 17:20:00
% Moisture:		% Solids: 71.4	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	94	U	ug/kg	94	U	1.0	YES	S4VEM
Benzaldehyde	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Phenol	Target	48	J	ug/kg	48	J	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
2-Chlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Methylphenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Acetophenone	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
4-Methylphenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Hexachloroethane	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Nitrobenzene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Isophorone	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Nitrophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Naphthalene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
4-Chloroaniline	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Caprolactam	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2-Nitroaniline	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Dimethylphthalate	Target	290		ug/kg	290		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Acenaphthylene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
3-Nitroaniline	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Acenaphthene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
4-Nitrophenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Dibenzofuran	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Diethylphthalate	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Fluorene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
4-Nitroaniline	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Atrazine	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Pentachlorophenol	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Phenanthrene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Anthracene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Fluoranthene	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Pyrene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Chrysene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	460	U	ug/kg	460	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	240	U	ug/kg	240	U	1.0	YES	S4VEM
Total Alkanes	TIC	99		ug/kg	99		1.0	YES	NV

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AF9	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 17:20:00
% Moisture:		% Solids: 71.4	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Chloromethane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Vinyl chloride	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Bromomethane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Chloroethane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Acetone	Target	12	U	ug/kg	12	U	1.0	YES	S4VEM
Carbon disulfide	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Methyl Acetate	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Methylene chloride	Target	39		ug/kg	39	B	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
2-Butanone	Target	12	U	ug/kg	12	U	1.0	YES	S4VEM
Bromochloromethane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Chloroform	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Cyclohexane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Benzene	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Trichloroethene	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Methylcyclohexane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Bromodichloromethane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	12	U	ug/kg	12	U	1.0	YES	S4VEM
Toluene	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Tetrachloroethene	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
2-Hexanone	Target	12	U	ug/kg	12	U	1.0	YES	S4VEM
Dibromochemicalmethane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Chlorobenzene	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Ethylbenzene	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
o-xylene	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
m,p-Xylene	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Styrene	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
Bromoform	Target	6.2	UJ	ug/kg	6.2	U	1.0	YES	S4VEM
Isopropylbenzene	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	6.2	U	ug/kg	6.2	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	6.2	UJ	ug/kg	6.2	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	6.2	UJ	ug/kg	6.2	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	6.2	UJ	ug/kg	6.2	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	6.2	UJ	ug/kg	6.2	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	6.2	UJ	ug/kg	6.2	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	6.2	UJ	ug/kg	6.2	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/kg			1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AG0	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 13:00:00
% Moisture:		% Solids: 75.3	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	44	U	ug/kg	44	U	1.0	YES	S4VEM
Aroclor-1221	Target	44	U	ug/kg	44	U	1.0	YES	S4VEM
Aroclor-1232	Target	44	U	ug/kg	44	U	1.0	YES	S4VEM
Aroclor-1242	Target	44	U	ug/kg	44	U	1.0	YES	S4VEM
Aroclor-1248	Target	44	U	ug/kg	44	U	1.0	YES	S4VEM
Aroclor-1254	Target	620		ug/kg	620		1.0	YES	S4VEM
Aroclor-1260	Target	44	U	ug/kg	44	U	1.0	YES	S4VEM
Aroclor-1262	Target	44	U	ug/kg	44	U	1.0	YES	S4VEM
Aroclor-1268	Target	44	U	ug/kg	44	U	1.0	YES	S4VEM

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AG0	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 13:00:00
% Moisture:		% Solids: 75.3	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	89	U	ug/kg	89	U	1.0	YES	S4VEM
Benzaldehyde	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
Phenol	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
2-Chlorophenol	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
2-Methylphenol	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
Acetophenone	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
4-Methylphenol	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Hexachloroethane	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Nitrobenzene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Isophorone	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
2-Nitrophenol	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Naphthalene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
4-Chloroaniline	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Caprolactam	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
2-Nitroaniline	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Dimethylphthalate	Target	240		ug/kg	240		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Acenaphthylene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
3-Nitroaniline	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
Acenaphthene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
4-Nitrophenol	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
Dibenzofuran	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Diethylphthalate	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Fluorene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
4-Nitroaniline	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Atrazine	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
Pentachlorophenol	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
Phenanthrene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Anthracene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Fluoranthene	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
Pyrene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Chrysene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	440	U	ug/kg	440	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	230	U	ug/kg	230	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/kg			1.0	YES	NV

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AG0	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 13:00:00
% Moisture:		% Solids: 75.3	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Chloromethane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Vinyl chloride	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Bromomethane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Chloroethane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Acetone	Target	14	U	ug/kg	14	U	1.0	YES	S4VEM
Carbon disulfide	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Methyl Acetate	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Methylene chloride	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
2-Butanone	Target	14	U	ug/kg	14	U	1.0	YES	S4VEM
Bromochloromethane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Chloroform	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Cyclohexane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Benzene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Trichloroethene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Methylcyclohexane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Bromodichloromethane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	14	U	ug/kg	14	U	1.0	YES	S4VEM
Toluene	Target	5.7	J	ug/kg	5.7	J	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Tetrachloroethene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
2-Hexanone	Target	14	U	ug/kg	14	U	1.0	YES	S4VEM
Dibromochemicalmethane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Chlorobenzene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Ethylbenzene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
o-xylene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
m,p-Xylene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Styrene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Bromoform	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Isopropylbenzene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	6.8	U	ug/kg	6.8	U	1.0	YES	S4VEM
Total Alkanes	TIC	9.1	B	ug/kg	9.1	B	1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AG1	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 13:10:00
% Moisture:	% Solids: 84.3		

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1221	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1232	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1242	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1248	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1254	Target	49		ug/kg	49		1.0	YES	S4VEM
Aroclor-1260	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1262	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1268	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AG1	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 13:10:00
% Moisture:		% Solids: 84.3	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	79	U	ug/kg	79	U	1.0	YES	S4VEM
Benzaldehyde	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Phenol	Target	67	J	ug/kg	67	J	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
2-Chlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2-Methylphenol	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Acetophenone	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
4-Methylphenol	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Hexachloroethane	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Nitrobenzene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Isophorone	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2-Nitrophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Naphthalene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
4-Chloroaniline	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Caprolactam	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2-Nitroaniline	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Dimethylphthalate	Target	360		ug/kg	360		1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Acenaphthylene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
3-Nitroaniline	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Acenaphthene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
4-Nitrophenol	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Dibenzofuran	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Diethylphthalate	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Fluorene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
4-Nitroaniline	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Atrazine	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Pentachlorophenol	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Phenanthrene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Anthracene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Fluoranthene	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Pyrene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Chrysene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	390	U	ug/kg	390	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	200	U	ug/kg	200	U	1.0	YES	S4VEM
n-Hexadecanoic acid	TIC	170	J	ug/kg	170	J	1.0	YES	NV
Total Alkanes	TIC	130		ug/kg	130		1.0	YES	NV

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AG1	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location: SCR	pH:	Sample Date: 08/01/2018	Sample Time: 13:10:00
% Moisture:		% Solids: 84.3	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Dibromochemicalmethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
o-xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
m,p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
unknown-01	TIC	3.2	J	ug/kg	3.2	J	1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC	9.8	B	ug/kg	9.8	B	1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AG1MS	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date: 08/01/2018	Sample Time: 13:10:00
% Moisture:		% Solids: 84.3	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Spike	190		ug/kg	190		1.0	YES	S4VEM
Aroclor-1221	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1232	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1242	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1248	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1254	Target	51		ug/kg	51		1.0	YES	S4VEM
Aroclor-1260	Spike	160		ug/kg	160		1.0	YES	S4VEM
Aroclor-1262	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1268	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Sample Number: C0AG1MSD	Method: Aroclors	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date: 08/01/2018	Sample Time: 13:10:00
% Moisture:		% Solids: 84.3	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Aroclor-1016	Spike	170		ug/kg	170		1.0	YES	S4VEM
Aroclor-1221	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1232	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1242	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1248	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1254	Target	46		ug/kg	46		1.0	YES	S4VEM
Aroclor-1260	Spike	160		ug/kg	160		1.0	YES	S4VEM
Aroclor-1262	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM
Aroclor-1268	Target	39	U	ug/kg	39	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: SBLK84	Method: Semivolatiles	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	67	U	ug/kg	67	U	1.0	YES	S4VEM
Benzaldehyde	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Phenol	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Bis(2-Chloroethyl)ether	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
2-Chlorophenol	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
2-Methylphenol	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
2,2-oxybis(1-Chloropropane)	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Acetophenone	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
4-Methylphenol	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
N-Nitroso-di-n-propylamine	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Hexachloroethane	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Nitrobenzene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Isophorone	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
2-Nitrophenol	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
2,4-Dimethylphenol	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Bis(2-Chloroethoxy)methane	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
2,4-Dichlorophenol	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Naphthalene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
4-Chloroaniline	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Hexachlorobutadiene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Caprolactam	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
4-Chloro-3-methylphenol	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
2-Methylnaphthalene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Hexachlorocyclopentadiene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
2,4,6-Trichlorophenol	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
2,4,5-Trichlorophenol	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
1,1-Biphenyl	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
2-Chloronaphthalene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
2-Nitroaniline	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Dimethylphthalate	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
2,6-Dinitrotoluene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Acenaphthylene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
3-Nitroaniline	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Acenaphthene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
2,4-Dinitrophenol	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
4-Nitrophenol	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Dibenzofuran	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
2,4-Dinitrotoluene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Diethylphthalate	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Fluorene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
4-Chlorophenyl-phenylether	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
4-Nitroaniline	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
4,6-Dinitro-2-methylphenol	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
N-Nitrosodiphenylamine	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
1,2,4,5-Tetrachlorobenzene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
4-Bromophenyl-phenylether	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Hexachlorobenzene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Atrazine	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Pentachlorophenol	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Phenanthrene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Anthracene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Carbazole	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Di-n-butylphthalate	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Fluoranthene	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Pyrene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Butylbenzylphthalate	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
3,3-Dichlorobenzidine	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Benzo(a)anthracene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Chrysene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Bis(2-ethylhexyl)phthalate	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Di-n-octyl phthalate	Target	330	U	ug/kg	330	U	1.0	YES	S4VEM
Benzo(b)fluoranthene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Benzo(k)fluoranthene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Benzo(a)pyrene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Indeno(1,2,3-cd)pyrene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Dibenzo(a,h)anthracene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Benzo(g,h,i)perylene	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
2,3,4,6-Tetrachlorophenol	Target	170	U	ug/kg	170	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/kg			1.0	YES	NV

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: VBLK96	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Dibromochemicalmethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
o-xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
m,p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/kg			1.0	YES	NV

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: VBLK97	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	7.7		ug/kg	7.7		1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Dibromochemicalmethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
o-xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
m,p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/kg			1.0	YES	NV

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AD9

**Lab Name:** Chemtech Consulting Group

Sample Number: VHBLK01	Method: Volatile Organics	Matrix: Soil	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 100	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	8.0		ug/kg	8.0	B	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/kg	10	U	1.0	YES	S4VEM
Dibromochemicalmethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
o-xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
m,p-Xylene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/kg	5.0	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/kg			1.0	YES	NV

# Sample Summary Report

Project Name: SHILO CHURCH ROAD SITE  
Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

**Appendix A**  
**Chain of Custody Records &**  
**Analytical Request Form**

## **USEPA CLP COC (REGION COPY)**

DateShipped: 25-Jul-18

CarrierName: FedEx

AirbillNo: 7728 1311 7053

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 01

No: 3-07-25-18-110415-0013

Lab: Bonner Analytical Testing Company

## Lab Contact:

Lab Phone: 601-264-2854

Special Instructions:	<b>Shipment for Case Complete? N</b> <b>Samples Transferred From Chain of Custody #</b>
Analysis Key: ICP-MS=TAL Metals+Hg by ISM02.4 (ICP-MS), Dissolved Metals=Dissolved TAL Metals+Hg by ISM02.4 (ICP-MS), ICP-AES=TAL Metals+Hg by ISM02.4 ICP-AES	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## **USEPA CLP COC (REGION COPY)**

DateShipped: 25-Jul-18

CarrierName: FedEx

AirbillNo: 7722 1310 1385

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 02

No: 3-07-25-18-110521-0014

Lab: Chemtech Consulting Group

# Lab Contact

Lab Phone: 908-789-8900

Special Instructions:  Analysis Key: ICP-PCBs=CLP ICP-MPCBs by SOM02.4	<b>Shipment for Case Complete? N</b> <b>Samples Transferred From Chain of Custody #</b>
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Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

USEPA CLP COC (REGION COPY)

DateShipped: 25-Jul-18

CarrierName: FedEx

AirbillNo: 7722 1310 1216

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 03

No: 3-07-25-18-111008-0015

Lab: Chemtech Consulting Group

## Lab Contact: Non-responsive based on

Lab Phone: 908-789-8900

Special Instructions:  Analysis Key: TAL SVOA=TAL SVOCs by SOM02.4	<b>Shipment for Case Complete? N</b> <b>Samples Transferred From Chain of Custody #</b>
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Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## USEPA CLP COC (REGION COPY)

DateShipped: 25-Jul-18

CarrierName: FedEx

AirbillNo: 7728 1338 6850

## CHAIN OF CUSTODY RECORD

Shiloh Church Road/VA

Case #: 47768

Cooler #: 04

No: 3-07-25-18-112131-0016

Lab: Chemtech Consulting Group

Lab Contact: [REDACTED] Non-responsive based on

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-0718-SW01-00	C0AB6	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1152 (HCl to pH < 2), 1153 (HCl to pH < 2), 1154 (HCl to pH < 2) (3)	SCR	07-23-2018 10:40	Field Sample
SCR-0718-SS03-0000-00	C0AB7	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21)	1155 (None), 1156 (None), 1157 (None), 1158 (None) (4)	SCR	07-25-2018 09:19	Field Sample
SCR-0718-SS01-0606-00	C0AB8	Sediment/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1162 (None) (1)	SCR	07-24-2018 16:30	Field Sample
SCR-0718-SS02-0000-00	C0AB9	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21)	1169 (None), 1170 (None), 1171 (None), 1172 (None) (4)	SCR	07-25-2018 09:05	Field Sample
SCR-0718-SW02-00	C0AC0	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1182 (HCl to pH < 2), 1183 (HCl to pH < 2), 1184 (HCl to pH < 2) (3)	SCR	07-23-2018 11:20	Field Sample
SCR-0718-SW03-00	C0AC1	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1191 (HCl to pH < 2), 1192 (HCl to pH < 2), 1193 (HCl to pH < 2) (3)	SCR	07-24-2018 16:30	Field Sample
SCR-0718-SW01-04	C0AC2	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1200 (HCl to pH < 2), 1201 (HCl to pH < 2), 1202 (HCl to pH < 2) (3)	SCR	07-23-2018 11:30	Trip Blank

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #

Analysis Key: Trace VOC=Trace VOCs by SOM02.4, Moisture=Moisture

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## USEPA CLP COC (REGION COPY)

DateShipped: 26-Jul-18

CarrierName: FedEx

AirbillNo: 7728 2420 3973

## CHAIN OF CUSTODY RECORD

Shiloh Church Road/VA

Case #: 47768

Cooler #: 05

No: 3-07-26-18-105937-0017

Lab: Bonner Analytical Testing Company

Lab Contact: [REDACTED] Non-responsive based on [REDACTED]

Lab Phone: 601-264-2854

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-072518-RW-013	MC0AC3	Water/ START Non-resp	Grab	ICP-MS(21)	1207 (HNO3 to pH < 2) (1)	L.P.B.M. HW	07-25-2018 15:05	Field Sample
SCR-072518-RW-013D	MC0AC4	Water/ START Non-resp	Grab	ICP-MS(21)	1215 (HNO3 to pH < 2) (1)	L.P.B.M. HW	07-25-2018 15:10	Field Sample
SCR-0718-SS04-0000-00	MC0AC7	Soil/ START Non-resp	Grab	ICP-AES(21)	1236 (None) (1)	SCR	07-25-2018 16:35	Field Sample
SCR-0718-SS05-0000-00	MC0AC8	Soil/ START Non-resp	Grab	ICP-AES(21)	1243 (None), 1275 (None) (2)	SCR	07-25-2018 16:55	Field Sample
SCR-0718-SS06-0000-00	MC0AC9	Soil/ START Non-resp	Grab	ICP-AES(21)	1250 (None) (1)	SCR	07-26-2018 08:40	Field Sample
SCR-0718-SS07-0000-00	MC0AD0	Soil/ START Non-resp	Grab	ICP-AES(21)	1257 (None) (1)	SCR	07-26-2018 09:05	Field Sample
SCR-0718-SS08-0000-00	MC0AD1	Soil/ START Non-resp	Grab	ICP-AES(21)	1264 (None) (1)	SCR	07-26-2018 09:26	Field Sample
SCR-0718-SS04-0000-01	MC0AD2	Soil/ START Non-resp	Grab	ICP-AES(21)	1271 (None) (1)	SCR	07-25-2018 16:40	Field Duplicate of [M]MC0AC7

Sample(s) to be used for Lab QC: SCR-0718-SS04-0000-01 Tag 1271	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #
Analysis Key: ICP-MS=TAL Metals+Hg by ISM02.4 (ICP-MS), ICP-AES=TAL Metals+Hg by ISM02.4 ICP-AES	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

USEPA CLP COC (REGION COPY)

DateShipped: 26-Jul-18

CarrierName: FedEx

AirbillNo: 7728 2439 7914

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 06

No: 3-07-26-18-112316-0018

Lab: Chemtech Consulting Group

## Lab Contact: Non-responsive based on

Lab Phone: 908-789-8900

Sample(s) to be used for Lab QC: SCR-0718-SS04-0000-01 Tag 1273	<b>Shipment for Case Complete? N</b>
	<b>Samples Transferred From Chain of Custody #</b>

Analysis Key: TAL SVOA=TAL SVOCs by SOM02.4, ICP-PCBs=CLP ICP-MPCBs by SOM02.4

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## **USEPA CLP COC (REGION COPY)**

DateShipped: 26-Jul-18

CarrierName: FedEx

AirbillNo: 7728 2439 8406

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 07

No: 3-07-26-18-112456-0019

Lab: Chemtech Consulting Group

## Lab Contact:

Lab Phone: 908-789-8900

Special Instructions:	<b>Shipment for Case Complete? N</b>
	<b>Samples Transferred From Chain of Custody #</b>
Analysis Key: ICP-PCBs=CLP ICP-MPCBs by SOM02.4, TAL SVOA=TAL SVOCs by SOM02.4	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## USEPA CLP COC (REGION COPY)

DateShipped: 26-Jul-18

CarrierName: FedEx

AirbillNo: 7728 2439 8597

## CHAIN OF CUSTODY RECORD

Shiloh Church Road/VA

Case #: 47768

Cooler #: 08

No: 3-07-26-18-113338-0020

Lab: Chemtech Consulting Group

Lab Contact: [REDACTED] Non-responsive based on

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-072518-RW-013	C0AC3	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1210 (HCl to pH < 2), 1211 (HCl to pH < 2), 1212 (HCl to pH < 2) (3)	L.P.B.M. HW	07-25-2018 15:05	Field Sample
SCR-072518-RW-013D	C0AC4	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1218 (HCl to pH < 2), 1219 (HCl to pH < 2), 1220 (HCl to pH < 2) (3)	L.P.B.M. HW	07-25-2018 15:10	Field Sample
SCR-0718-RW13-04	C0AC6	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1229 (HCl to pH < 2), 1230 (HCl to pH < 2), 1231 (HCl to pH < 2) (3)	SCR	07-25-2018 15:30	Trip Blank
SCR-0718-SS04-0000-00	C0AC7	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21)	1232 (None), 1233 (None), 1234 (None), 1235 (None) (4)	SCR	07-25-2018 16:35	Field Sample
SCR-0718-SS05-0000-00	C0AC8	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21)	1239 (None), 1240 (None), 1241 (None), 1242 (None) (4)	SCR	07-25-2018 16:55	Field Sample
SCR-0718-SS06-0000-00	C0AC9	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21)	1246 (None), 1247 (None), 1248 (None), 1249 (None) (4)	SCR	07-26-2018 08:40	Field Sample
SCR-0718-SS07-0000-00	C0AD0	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21)	1253 (None), 1254 (None), 1255 (None), 1256 (None) (4)	SCR	07-26-2018 09:05	Field Sample
SCR-0718-SS08-0000-00	C0AD1	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21)	1260 (None), 1261 (None), 1262 (None), 1263 (None) (4)	SCR	07-26-2018 09:26	Field Sample
SCR-0718-SS04-0000-01	C0AD2	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21)	1267 (None), 1268 (None), 1269 (None), 1270 (None) (4)	SCR	07-25-2018 16:40	Field Duplicate of [M]C0AC7

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #
Analysis Key: Trace VOC=Trace VOCs by SOM02.4, Moisture=Moisture	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## **USEPA CLP COC (REGION COPY)**

DateShipped: 30-Jul-18

CarrierName: FedEx

AirbillNo: 7728 4382 9081

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 09

No: 3-07-29-18-234816-0021

Lab: Bonner Analytical Testing Company

## Lab Contact: [REDACTED] Non-responsive based on re

Lab Phone: 601-264-2854

Sample(s) to be used for Lab QC: SCR-0718-MW02-00 Tag 1287	<b>Shipment for Case Complete? N</b>
	<b>Samples Transferred From Chain of Custody #</b>

Analysis Key: ICP-MS=TAL Metals+Hg by ISM02.4 (ICP-MS), Dissolved Metals=Dissolved TAL Metals+Hg by ISM02.4 (ICP-MS)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## **USEPA CLP COC (REGION COPY)**

DateShipped: 30-Jul-18

CarrierName: FedEx

AirbillNo: 7728 4384 0204

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 10

No: 3-07-29-18-235032-0022

Lab: Chemtech Consulting Group

## Lab Contact:

Lab Phone: 908-789-8900

Special Instructions:	<b>Shipment for Case Complete? N</b> <b>Samples Transferred From Chain of Custody #</b>
Anilak K - ICR PCR - GLB ICR MRCP - L - GOM02-1 TAL-SVCA-TAL-SVCC-L - GOM02-1	

Analysis Key: ICP-PCBs=CLP ICP-MPCBs by SOM02.4, TAL SVOA=TAL SVOCs by SOM02.4

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

USEPA CLP COC (REGION COPY)

DateShipped: 30-Jul-18

CarrierName: FedEx

AirbillNo: 7728 4383 9575

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 11

No: 3-07-30-18-000142-0023

Lab: Chemtech Consulting Group

## Lab Contact:

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## USEPA CLP COC (REGION COPY)

DateShipped: 30-Jul-18

CarrierName: FedEx

AirbillNo: 7728 4384 0215

## CHAIN OF CUSTODY RECORD

Shiloh Church Road/VA

Case #: 47768

Cooler #: 12

No: 3-07-30-18-000359-0024

Lab: Chemtech Consulting Group

Lab Contact: [REDACTED] Non-responsive based on

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-0718-MW01-00	C0AD3	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1281 (HCl to pH < 2), 1282 (HCl to pH < 2), 1283 (HCl to pH < 2) (3)	SCR Former Store	07-26-2018 14:35	Field Sample
SCR-0718-MW02-00	C0AD4	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1290 (HCl to pH < 2), 1291 (HCl to pH < 2), 1292 (HCl to pH < 2) (3)	SCR Former Store	07-26-2018 15:15	Field Sample
SCR-0718-MW03-00	C0AD5	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1299 (HCl to pH < 2), 1300 (HCl to pH < 2), 1301 (HCl to pH < 2) (3)	SCR Former Store	07-26-2018 14:15	Field Sample
SCR-0718-MW04-00	C0AD6	Water/ START [REDACTED] Non-resp	Grab	ICP-PCBs(21), TAL SVOA(21), Trace VOC(21)	1303 (None), 1304 (None), 1306 (None), 1307 (None), 1308 (HCl to pH < 2), 1309 (HCl to pH < 2), 1310 (HCl to pH < 2) (7)	SCR Former Store	07-26-2018 16:00	Field Sample
SCR-0718-MW01-04	C0AD7	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1317 (HCl to pH < 2), 1318 (HCl to pH < 2), 1319 (HCl to pH < 2) (3)	SCR Former Store	07-26-2018 14:05	Trip Blank

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #

Analysis Key: Trace VOC=Trace VOCs by SOM02.4, ICP-PCBs=CLP ICP-MPCBs by SOM02.4, TAL SVOA=TAL SVOCs by SOM02.4

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## USEPA CLP COC (REGION COPY)

DateShipped: 01-Aug-18

CarrierName: FedEx

AirbillNo: 7728 6981 6519

## CHAIN OF CUSTODY RECORD

Shiloh Church Road/VA

Case #: 47768

Cooler #: 13

No: 3-08-01-18-111903-0025

Lab: Chemtech Consulting Group

Lab Contact: [REDACTED] Non-responsive based on

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-0718-SB01-0102-00	C0AD8	Soil/ START Non-resp	Grab	Trace VOC(21), Moisture(21)	1327 (None), 1328 (None), 1329 (None), 1330 (None) (4)	SCR	07-31-2018 10:30	Field Sample
SCR-0718-SB01-1920-00	C0AD9	Soil/ START Non-resp	Grab	Trace VOC(21), Moisture(21)	1334 (None), 1335 (None), 1336 (None), 1337 (None) (4)	SCR	07-31-2018 10:50	Field Sample
SCR-0718-SB01-3035-00	C0AE0	Soil/ START Non-resp	Grab	Trace VOC(21)	1341 (None) (1)	SCR	07-31-2018 12:55	Field Sample
SCR-0718-SB01-5050-00	C0AE2	Soil/ START Non-resp	Grab	Trace VOC(21)	1349 (None) (1)	SCR	07-31-2018 13:20	Field Sample
SCR-0718-SB02-2425-00	C0AE3	Soil/ START Non-resp	Grab	Trace VOC(21), Moisture(21)	1350 (None), 1351 (None), 1352 (None), 1353 (None) (4)	SCR	07-31-2018 15:10	Field Sample
SCR-0718-SB02-0102-00	C0AE4	Soil/ START Non-resp	Grab	Trace VOC(21), Moisture(21)	1357 (None), 1358 (None), 1359 (None), 1360 (None) (4)	SCR	07-31-2018 14:45	Field Sample
SCR-0718-SB03-0102-00	C0AE5	Soil/ START Non-resp	Grab	Trace VOC(21), Moisture(21)	1364 (None), 1365 (None), 1366 (None), 1367 (None) (4)	SCR	07-31-2018 15:45	Field Sample
SCR-0718-SB03-1617-00	C0AE6	Soil/ START Non-resp	Grab	Trace VOC(21), Moisture(21)	1371 (None), 1372 (None), 1373 (None), 1374 (None) (4)	SCR	07-31-2018 16:05	Field Sample
SCR-0718-SB04-0102-00	C0AE7	Soil/ START Non-resp	Grab	Trace VOC(21), Moisture(21)	1378 (None), 1379 (None), 1380 (None), 1381 (None) (4)	SCR	08-01-2018 09:00	Field Sample
SCR-0718-SB04-1314-00	C0AE8	Soil/ START Non-resp	Grab	Trace VOC(21), Moisture(21)	1385 (None), 1386 (None), 1387 (None), 1388 (None) (4)	SCR	08-01-2018 09:10	Field Sample

Special Instructions: Note: 48-hour hold-time for VOCs expires at 10:30 on 8/2/18.	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #
Analysis Key: Trace VOC=Trace VOCs by SOM02.4, Moisture=Moisture	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## **USEPA CLP COC (REGION COPY)**

DateShipped: 01-Aug-18

CarrierName: FedEx

AirbillNo: 7728 6981 6519

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 13

No: 3-08-01-18-111903-0025

Lab: Chemtech Consulting Group

## Lab Contact:

Lab Phone: 908-789-8900

Special Instructions: Note: 48-hour hold-time for VOCs expires at 10:30 on 8/2/18.	<b>Shipment for Case Complete? N</b> <b>Samples Transferred From Chain of Custody #</b>
Analysis Key: Trace VOC=Trace VOCs by SOM02.4, Moisture=Moisture	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## USEPA CLP COC (REGION COPY)

DateShipped: 01-Aug-18

CarrierName: FedEx

AirbillNo: 7728 7098 8970

## CHAIN OF CUSTODY RECORD

Shiloh Church Road/VA

Case #: 47768

Cooler #: 14

No: 3-08-02-18-104036-0028

Lab: Chemtech Consulting Group

Lab Contact: [REDACTED] Non-responsive based on

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-0718-SS09-0000-00	C0AF5	Soil/ START [REDACTED] Non-resp	Grab	ICP-PCBs(21)	1440 (None) (1)	SCR	08-01-2018 11:00	Field Sample
SCR-0718-SS12-0000-00	C0AF8	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21), TAL SVOA(21)	1455 (None), 1456 (None), 1457 (None), 1458 (None), 1460 (None) (5)	SCR	08-01-2018 17:15	Field Sample
SCR-0718-SS12-0000-01	C0AF9	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21), TAL SVOA(21)	1462 (None), 1463 (None), 1464 (None), 1465 (None), 1467 (None) (5)	SCR	08-01-2018 17:20	Field Duplicate of [M]C0AF8
SCR-0718-SB08-0102-00	C0AG0	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21), TAL SVOA(21), ICP-PCBs(21)	1469 (None), 1470 (None), 1471 (None), 1472 (None), 1474 (None), 1475 (None) (6)	SCR	08-01-2018 13:00	Field Sample
SCR-0718-SB08-1415-00	C0AG1	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21), TAL SVOA(21), ICP-PCBs(21)	1476 (None), 1477 (None), 1478 (None), 1479 (None), 1481 (None), 1482 (None) (6)	SCR	08-01-2018 13:10	Field Sample
SCR-0718-SB08-04	C0AG2	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1488 (HCl to pH < 2), 1489 (HCl to pH < 2), 1490 (HCl to pH < 2) (3)	SCR	08-01-2018 14:00	Trip Blank

## Shipment for Case Complete? N

## Samples Transferred From Chain of Custody #

Sample(s) to be used for Lab QC: SCR-0718-SS12-0000-00 Tag 1460

Analysis Key: ICP-PCBs=CLP ICP-MPCBs by SOM02.4, Trace VOC=Trace VOCs by SOM02.4, Moisture=Moisture, TAL SVOA=TAL SVOCs by SOM02.4

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

**USEPA CLP COC (REGION COPY)**

DateShipped: 01-Aug-18

CarrierName: FedEx

AirbillNo: 7728 7098 8970

**CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 14

**No: 3-08-01-18-123221-0026**

Lab: Chemtech Consulting Group

Lab Contact: [REDACTED] Non-responsive based on

Lab Phone: 908-789-8900

<b>Sample Identifier</b>	<b>CLP Sample No.</b>	<b>Matrix/Sampler</b>	<b>Coll. Method</b>	<b>Analysis/Turnaround (Days)</b>	<b>Tag/Preservative/Bottles</b>	<b>Location</b>	<b>Collection Date/Time</b>	<b>Sample Type</b>
SCR-0718-SB01-0102-00	C0AD8	Soil/ START [REDACTED] Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1332 (None), 1333 (None) (2)	SCR	07-31-2018 10:30	Field Sample
SCR-0718-SB01-1920-00	C0AD9	Soil/ START [REDACTED] Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1339 (None), 1340 (None) (2)	SCR	07-31-2018 10:50	Field Sample
SCR-0718-SB01-3535-00	C0AE1	Soil/ START [REDACTED] Non-resp	Grab	TAL SVOA(21)	1348 (None) (1)	SCR	07-31-2018 12:55	Field Sample
SCR-0718-SB02-2425-00	C0AE3	Soil/ START [REDACTED] Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1355 (None), 1356 (None) (2)	SCR	07-31-2018 15:10	Field Sample
SCR-0718-SB02-0102-00	C0AE4	Soil/ START [REDACTED] Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1362 (None), 1363 (None) (2)	SCR	07-31-2018 14:45	Field Sample
SCR-0718-SB03-0102-00	C0AE5	Soil/ START [REDACTED] Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1369 (None), 1370 (None) (2)	SCR	07-31-2018 15:45	Field Sample
SCR-0718-SB03-1617-00	C0AE6	Soil/ START [REDACTED] Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1376 (None), 1377 (None) (2)	SCR	07-31-2018 16:05	Field Sample
SCR-0718-SB04-0102-00	C0AE7	Soil/ START [REDACTED] Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1383 (None), 1384 (None) (2)	SCR	08-01-2018 09:00	Field Sample
SCR-0718-SB04-1314-00	C0AE8	Soil/ START [REDACTED] Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1390 (None), 1391 (None) (2)	SCR	08-01-2018 09:10	Field Sample
SCR-0718-SB05-0102-00	C0AE9	Soil/ START [REDACTED] Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1397 (None), 1398 (None) (2)	SCR	08-01-2018 09:25	Field Sample

Special Instructions:	<b>Shipment for Case Complete? N</b>
	<b>Samples Transferred From Chain of Custody #</b>
Analysis Key: TAL SVOA=TAL SVOCs by SOM02.4, ICP-PCBs=CLP ICP-MPCBs by SOM02.4	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

USEPA CLP COC (REGION COPY)

DateShipped: 01-Aug-18

CarrierName: FedEx

AirbillNo: 7728 7098 8970

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 14

No: 3-08-01-18-123221-0026

Lab: Chemtech Consulting Group

## Lab Contact: Non-responsive based on

Lab Phone: 908-789-8900

Special Instructions:	Shipment for Case Complete? N Samples Transferred From Chain of Custody #
Analysis Key: TAL SVOA=TAL SVOCs by SOM02.4, ICP-PCBs=CLP ICP-MPCBs by SOM02.4	

Analysis Key: TAL SVOA=TAL SVOCs by SOM02.4, ICP-PCBs=CLP ICP-MPCBs by SOM02.4

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## USEPA CLP COC (REGION COPY)

DateShipped: 02-Aug-18

CarrierName: FedEx

AirbillNo: 7728 8029 9189

## CHAIN OF CUSTODY RECORD

Shiloh Church Road/VA

Case #: 47768

Cooler #: 15

No: 3-08-02-18-103954-0027

Lab: Bonner Analytical Testing Company

Lab Contact: [REDACTED] Non-responsive based on [REDACTED]

Lab Phone: 601-264-2854

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-0718-SB01-0102-00	MC0AD8	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1331 (None) (1)	SCR	07-31-2018 10:30	Field Sample
SCR-0718-SB01-1920-00	MC0AD9	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1338 (None) (1)	SCR	07-31-2018 10:50	Field Sample
SCR-0718-SB02-2425-00	MC0AE3	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1354 (None) (1)	SCR	07-31-2018 15:10	Field Sample
SCR-0718-SB02-0102-00	MC0AE4	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1361 (None) (1)	SCR	07-31-2018 14:45	Field Sample
SCR-0718-SB03-0102-00	MC0AE5	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1368 (None) (1)	SCR	07-31-2018 15:45	Field Sample
SCR-0718-SB03-1617-00	MC0AE6	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1375 (None) (1)	SCR	07-31-2018 16:05	Field Sample
SCR-0718-SB04-0102-00	MC0AE7	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1382 (None) (1)	SCR	08-01-2018 09:00	Field Sample
SCR-0718-SB04-1314-00	MC0AE8	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1389 (None) (1)	SCR	08-01-2018 09:10	Field Sample
SCR-0718-SB05-0102-00	MC0AE9	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1396 (None) (1)	SCR	08-01-2018 09:25	Field Sample
SCR-0718-SB05-1415-00	MC0AF0	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1403 (None) (1)	SCR	08-01-2018 09:35	Field Sample

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #
Analysis Key: ICP-AES=TAL Metals+Hg by ISM02.4 ICP-AES	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## USEPA CLP COC (REGION COPY)

DateShipped: 02-Aug-18

CarrierName: FedEx

AirbillNo: 7728 8029 9189

## CHAIN OF CUSTODY RECORD

Shiloh Church Road/VA

Case #: 47768

Cooler #: 15

No: 3-08-02-18-103954-0027

Lab: Bonner Analytical Testing Company

Lab Contact: [REDACTED] Non-responsive based on [REDACTED]

Lab Phone: 601-264-2854

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-0718-SB06-0102-00	MC0AF1	Soil/ START Non-resp	Grab	ICP-AES(21)	1410 (None) (1)	SCR	08-01-2018 10:20	Field Sample
SCR-0718-SB07-0102-00	MC0AF2	Soil/ START Non-resp	Grab	ICP-AES(21)	1417 (None) (1)	SCR	08-01-2018 10:55	Field Sample
SCR-0718-SB06-1819-00	MC0AF3	Soil/ START Non-resp	Grab	ICP-AES(21)	1424 (None) (1)	SCR	08-01-2018 10:35	Field Sample
SCR-0718-SB07-1819-00	MC0AF4	Soil/ START Non-resp	Grab	ICP-AES(21)	1431 (None) (1)	SCR	08-01-2018 11:05	Field Sample
SCR-0718-SS10-0000-00	MC0AF6	Soil/ START Non-resp	Grab	ICP-AES(21)	1445 (None) (1)	SCR	08-01-2018 16:05	Field Sample
SCR-0718-SS11-0000-00	MC0AF7	Soil/ START Non-resp	Grab	ICP-AES(21)	1452 (None) (1)	SCR	08-01-2018 16:50	Field Sample
SCR-0718-SS12-0000-00	MC0AF8	Soil/ START Non-resp	Grab	ICP-AES(21)	1459 (None), 1492 (None) (2)	SCR	08-01-2018 17:15	Field Sample
SCR-0718-SS12-0000-01	MC0AF9	Soil/ START Non-resp	Grab	ICP-AES(21)	1466 (None) (1)	SCR	08-01-2018 17:20	Field Duplicate of [M]MC0AF8
SCR-0718-SB08-0102-00	MC0AG0	Soil/ START Non-resp	Grab	ICP-AES(21)	1473 (None) (1)	SCR	08-01-2018 13:00	Field Sample
SCR-0718-SB08-1415-00	MC0AG1	Soil/ START Non-resp	Grab	ICP-AES(21)	1480 (None) (1)	SCR	08-01-2018 13:10	Field Sample

Shipment for Case Complete? N	Samples Transferred From Chain of Custody #

Sample(s) to be used for Lab QC: SCR-0718-SS12-0000-00 Tag 1459, SCR-0718-SS12-0000-00 Tag 1492

Analysis Key: ICP-AES=TAL Metals+Hg by ISM02.4 ICP-AES

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt



## US EPA Region 3 Analytical Request (ARF) Report

CT Number: CT8495Date Receipt: 07/12/2018Sample(s) Shipping DatesStart: 07/23/2018 End: 08/17/2018ARF Status: IN PROGRESSSite: SHILOH CHURCH ROAD SITESite Activity: REMOVAL ASSESSMENT (RS)Program: SUPERFUND (RAS AND/OR DAS)Street: Non-responsive based on revised scope SHILOH CHURCH ROADCity: NATHALIEState: VA Zip: 24577Account No: 2018-T-03-N-303DC6-A38Q-RS-00SPILL ID: A38QOPERABLE UNIT: 00

EPA ID (aka CERCLIS):

QA Title:

QA Date Approved:

EPA Project Lead: CHRIS WAGNER Phone: 804-698-4164 Cell Phone #: - - E-mail: WAGNER.CHRISTINE@EPA.GOVSite Leader: Non-responsive based on revised scope Phone: Non-responsive based on revised scope Cell Phone #: Non-responsive based on revised scope E-mail: Non-responsive based on revised scopeRequest Preparer: Non-responsive based on revised scope Phone: Non-responsive based on revised scope Cell Phone #: Non-responsive based on revised scope E-mail: Non-responsive based on revised scopeContractor: WESTON SOLUTIONS EPA CO/PO: RYAN PARKER Equivalent method substitution allowed: YES

Special Instructions:

WATER SAMPLES WILL INCLUDE BOTH GROUNDWATER AND SURFACE WATER SAMPLES  
SAMPLING WILL BE SPLIT INTO TWO DIFFERENT WEEKS, SOIL/SEDIMENT SAMPLING, ASSOCIATED QC SAMPLING, AND SURFACE WATER SAMPLING IS SCHEDULED FOR THE WEEK OF JULY 23 GROUNDWATER SAMPLING AND POTENTIALLY ANY REMAINING SURFACE WATER SAMPLING IS SCHEDULED FOR THE WEEK OF AUGUST 13

Comments:

DAS	RAS	Lab Assigned	QTY	Matrix	Parameter	Requested Method	Accepted Method	Validation Level	Unvalidated Data Due	Final Report Due	EDD Required
	47768	CHM	50	SOIL/SEDIMENT	VOLATILE ORGANIC COMPOUNDS (VOC)	SOM02 4 (LOW/MID)	SOM02 4 (LOW/MID)	M3	21	45	Y
	47768	CHEM	50	SOIL/SEDIMENT	SEMIVOLATILES (SVOCS)	SOM02 4	SOM02 4	M3	21	45	Y
	47768	CHEM	50	SOIL/SEDIMENT	PCB AROCLORS	SOM02 4	SOM02 4	M3	21	45	Y
	47768	BON	50	SOIL/SEDIMENT	METALS (TOTAL)	ISM02 4 ICP-AES	ISM02 4 ICP-AES	IM2	21	45	Y
	47768	CHEM	9	WATER	VOLATILE ORGANIC COMPOUNDS (VOC)	SOM02 4 (LOW/MID)	SOM02 4 (LOW/MID)	M3	21	45	Y
	47768	CHEM	9	WATER	SEMIVOLATILES (SVOCS)	SOM02 4	SOM02 4	M3	21	45	Y
	47768	CHEM	9	WATER	PCB AROCLORS	SOM02 4	SOM02 4	M3	21	45	Y
	47768	BON	9	WATER	METALS (TOTAL)	ISM02 4 ICP-AES	ISM02 4 ICP-AES	IM2	21	45	Y
	47768	BON	9	WATER	MERCURY (TOTAL)	ISM02 4	ISM02 4	IM2	21	45	Y
	47768	CHEM	8	DRINKING WATER	VOLATILE ORGANIC COMPOUNDS (VOC) TRACE	SOM02 4 (TRACE)	SOM02 4 (TRACE)	M3	21	45	Y



## US EPA Region 3 Analytical Request (ARF) Report

CT Number: CT8495Date Receipt: 07/12/2018Sample(s) Shipping DatesStart: 07/23/2018End: 08/17/2018ARF Status: IN PROGRESS

DAS	RAS	Lab Assigned	QTY	Matrix	Parameter	Requested Method	Accepted Method	Validation Level	Unvalidated Data Due	Final Report Due	EDD Required
	47768	CHEM	8	DRINKING WATER	SEMIVOLATILES (SVOCS)	SOM02 4	SOM02 4	M3	21	45	Y
	47768	CHEM	8	DRINKING WATER	PCB AROCLORS	SOM02 4	SOM02 4	M3	21	45	Y
	47768	BON	8	DRINKING WATER	METALS (TOTAL)	ISM02 4 ICP-MS	ISM02 4 ICP-MS	IM2	21	45	Y
	47768	BON	8	DRINKING WATER	MERCURY (TOTAL)	ISM02 4	ISM02 4	IM2	21	45	Y
	47768	CHEM	9	QC BLANKS(FIELD, EQUIP, TRIP, RIN)	VOLATILE ORGANIC COMPOUNDS (VOC) TRACE	SOM02 4 (TRACE)	SOM02 4 (TRACE)	M3	21	45	Y
	47768	CHEM	5	QC BLANKS(FIELD, EQUIP, TRIP, RIN)	SEMIVOLATILES (SVOCS)	SOM02 4	SOM02 4	M3	21	45	Y
	47768	CHEM	5	QC BLANKS(FIELD, EQUIP, TRIP, RIN)	PCB AROCLORS	SOM02 4	SOM02 4	M3	21	45	Y
	47768	BON	5	QC BLANKS(FIELD, EQUIP, TRIP, RIN)	METALS (TOTAL)	ISM02 4 ICP-AES	ISM02 4 ICP-AES	IM2	21	45	Y
	47768	BON	5	QC BLANKS(FIELD, EQUIP, TRIP, RIN)	MERCURY (TOTAL)	ISM02 4	ISM02 4	IM2	21	45	Y
	47768	BON	9	WATER	METALS (DISSOLVED)	ISM02 4 ICP-AES	ISM02 4 ICP-AES	IM2	21	45	Y
	47768	BON	9	WATER	MERCURY (DISSOLVED)	ISM02 4	ISM02 4	IM2	21	45	Y
	47768	BON	5	QC BLANKS(FIELD, EQUIP, TRIP, RIN)	METALS (DISSOLVED)	ISM02 4 ICP-AES	ISM02 4 ICP-AES	IM2	21	45	Y
	47768	BON	5	QC BLANKS(FIELD, EQUIP, TRIP, RIN)	MERCURY (DISSOLVED)	ISM02 4	ISM02 4	IM2	21	45	Y
	47768	BON	50	SOIL/SEDIMENT	MERCURY (TOTAL)	ISM02 4	ISM02 4	IM2	21	45	Y

**Appendix B**  
**Laboratory Case Narrative and**  
**Data Package Excerpts**

## SDG COVER PAGE

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Cas No.: 47768 MA No. : SDG No.: COAD9  
 SOW No. : SOM02.4

EPA Sample No.	Lab Sample ID	Trace VOA	Analysis Method				
			Low Med VOA	SVOA	SVOA SIM	PEST	ARO
COAD8	J4301-01			X			X
COAD9	J4301-02			X			X
COAE1	J4301-03			X			
COAE3	J4301-04			X			X
COAE4	J4301-05			X			X
COAE5	J4301-06			X			X
COAE6	J4301-07			X			X
COAE7	J4301-08			X			X
COAE8	J4301-09			X			X
COAE9	J4301-10			X			X
COAF0	J4301-11			X			X
COAF1	J4301-12			X			X
COAF2	J4301-13			X			X
COAF3	J4301-14			X			X
COAF4	J4301-15			X			X
COAF5	J4301-16						X
COAF8	J4301-17		X	X			
COAF9	J4301-18		X	X			
C0AG0	J4301-19		X	X			X
C0AG1	J4301-20		X	X			X
C0AG1MS	J4301-21						X
C0AG1MSD	J4301-22						X
VHBLK01	J4301-23		X				

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

**Non-responsive based on revised scope**

Signature:

Name:

Date:

8/22/18

Title:

LOA/LOC/DCO

SDG# C0AD9

## USEPA CLP COC (LAP COPY)

Date Shipped: 01-Aug-18

Carrier Name: FedEx

Airbill No: 7728 7098 8970

## CHAIN OF CUSTODY RECORD

Case #: 47768

Cooler #: 14

No: 3-08-01-18 123221-0026

Lab: Chemtech Consulting Group

Lab Contact: Non-responsive based on

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
SCR-0718-SB01-0102-00	C0AD8	Soil/ START Non-respo	Grab	TAL SVOA(21), ICP-PCBs(21)	1332 (None), 1333 (None) (2)	SCR	07-31-2018 10:30	TAGS RCVD
SCR-0718-SB01-1920-00	C0AD9	Soil/ START Non-respo	Grab	TAL SVOA(21), ICP-PCBs(21)	1339 (None), 1340 (None) (2)	SCR	07-31-2018 10:50	
SCR-0718-SB01-3535-00	C0AE1	Soil/ START Non-respo	Grab	TAL SVOA(21)	1348 (None) (1)	SCR	07-31-2018 12:55	
SCR-0718-SB02-2425-00	C0AE3	Soil/ START Non-respo	Grab	TAL SVOA(21), ICP-PCBs(21)	1355 (None), 1356 (None) (2)	SCR	07-31-2018 15:10	
SCR-0718-SB02-0102-00	C0AE4	Soil/ START Non-respo	Grab	TAL SVOA(21), ICP-PCBs(21)	1362 (None), 1363 (None) (2)	SCR	07-31-2018 14:45	
SCR-0718-SB03-0102-00	C0AE5	Soil/ START Non-respo	Grab	TAL SVOA(21), ICP-PCBs(21)	1369 (None), 1370 (None) (2)	SCR	07-31-2018 15:45	
SCR-0718-SB03-1617-00	C0AE6	Soil/ START Non-respo	Grab	TAL SVOA(21), ICP-PCBs(21)	1376 (None), 1377 (None) (2)	SCR	07-31-2018 16:05	
SCR-0718-SB04-0102-00	C0AE7	Soil/ START Non-respo	Grab	TAL SVOA(21), ICP-PCBs(21)	1383 (None), 1384 (None) (2)	SCR	08-01-2018 09:00	
SCR-0718-SB04-1314-00	C0AE8	Soil/ START Non-respo	Grab	TAL SVOA(21), ICP-PCBs(21)	1390 (None), 1391 (None) (2)	SCR	08-01-2018 09:10	
SCR-0718-SB05-0102-00	C0AE9	Soil/ START Non-respo	Grab	TAL SVOA(21), ICP-PCBs(21)	1397 (None), 1398 (None) (2)	SCR	08-01-2018 09:25	

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #

Analysis Key: TAL SVOA=TAL SVOCs by SOM02.4, ICP-PCBs=CLP ICP-MPCBs by SOM02.4

Items/Reason	Relinquished by (Signature and Organization) Non-responsive based on revised scope	Date/Time	Received by (Signature and Organization) Non-responsive based on revised scope	Date/Time	Sample Condition Upon Receipt
Engines for Analysis	(Signature)	08/01/18 1300	(Signature)	10:15 8-2-18	3.1 c
					IR-Gon #1

SDG# COAD9

## USEPA CLP COC (LAB COPY)

Date Shipped: 01-Aug-18

Carrier Name: FedEx

Airbill No: 7728 7098 8970

## CHAIN OF CUSTODY RECORD

Case #: 47768

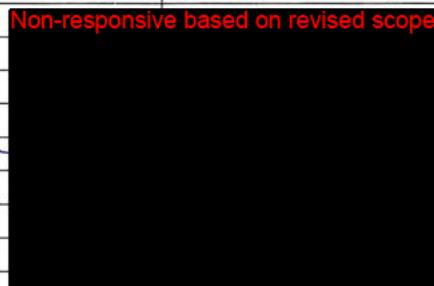
Cooler #: 14

No: 3-08-01-18-123221-0026

Lab: Chemtech Consulting Group

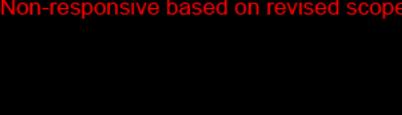
Lab Contact: Non-responsive based on

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
SCR-0718-SB05-1415-00	C0AF0	Soil/ START Non-respo	Grab	TAL SVOA(21), ICP-PCBs(21)	1404 (None), 1405 (None) (2)	SCR	08-01-2018 09:35	Tags REVD
SCR-0718-SB06-0102-00	C0AF1	Soil/ START Non-respo	Grab	TAL SVOA(21), ICP-PCBs(21)	1411 (None), 1412 (None) (2)	SCR	08-01-2018 10:20	
SCR-0718-SB07-0102-00	C0AF2	Soil/ START Non-respo	Grab	TAL SVOA(21), ICP-PCBs(21)	1418 (None), 1419 (None) (2)	SCR	08-01-2018 10:55	
SCR-0718-SB06-1819-00	C0AF3	Soil/ START Non-respo	Grab	TAL SVOA(21), ICP-PCBs(21)	1425 (None), 1426 (None) (2)	SCR	08-01-2018 10:35	
SCR-0718-SB07-1819-00	C0AF4	Soil/ START Non-respo	Grab	TAL SVOA(21), ICP-PCBs(21)	1432 (None), 1433 (None) (2)	SCR	08-01-2018 11:05	
 Non-responsive based on revised scope								
 08/01/18								

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #

Analysis Key: TAL SVOA=TAL SVOCs by SOM02.4, ICP-PCBs=CLP ICP-MPCBs by SOM02.4

Items/Reason	Non-responsive based on revised scope	Date/Time	Rec'd Non-responsive (based on revised scope) Organization	Date/Time	Sample Condition Upon Receipt
Samples for analysis		08/01/18 1300		10:15 8-2-18	3.1 - FF-Gun #1

USEPA CLP COC (LAB COPY)

DateShipped: 01-Aug-18

CarrierName: FedEx

Airbill No: 7728 7098 8970

**CHAIN OF CUSTODY RECORD**

Case #: 47768

Cooler #: 14

SDG # COAD9

No: 3-08-02-18-104036-0028

Lab: Chemtech Consulting Group

**Lab Contact:** Non-responsive based on

Lab Phone: 908-789-8900

Sample(s) to be used for Lab QC: SCR-0718-SS12-0000-00 Tag 1460

Shipment for Case Complete? N

**Samples Transferred From Chain of Custody #**

Analysis Key: ICP-PCBs=CLP ICP-MPCBs by SOM02.4. Trace VOC=Trace VOCs by SOM02.4. Moisture=Moisture. TAL SVOA=TAL SVOCs by SOM02.4

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Supplies to Hobbyists	Non-responsive based on revised scope [Redacted] Boston	08/02/12 13:00	Non-responsive based on revised scope [Redacted]	8-3-18 0955	3.1°C / IR CW #1

## Sample Delivery Group (SDG) Cover Sheet

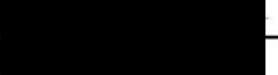
SDG Number	<u>C0AD8</u>	Case Number	<u>47768</u>	Contract Number	<u>EP-W-14-030</u>
Lab Code	<u>CHM</u>	SDG Turnaround	<u>210days</u>	Delivery CLIN(s)	<u>1-1</u>
First Sample Received in SDG	C0AD8	Last Sample Received in SDG		C0AG1MSD	
First Sample Receipt Date	8/2/2018 10:15:00 AM	Last Sample Receipt Date		8/3/2018 9:55:00 AM	

### USEPA Sample Numbers in SDG (Listed in Numerical Order)

CLP Sample ID	Sample Type	Requested Analytical CLIN(s)/SubCLIN(s)	Solicitation Number	MA Number(s)
C0AD8	Field Sample	0020AB,0014AB	N/A	N/A
C0AD9	Field Sample	0014AB,0020AB	N/A	N/A
C0AE1	Field Sample	0014AB	N/A	N/A
C0AE3	Field Sample	0014AB,0020AB	N/A	N/A
C0AE4	Field Sample	0014AB,0020AB	N/A	N/A
C0AE5	Field Sample	0014AB,0020AB	N/A	N/A
C0AE6	Field Sample	0020AB,0014AB	N/A	N/A
C0AE7	Field Sample	0020AB,0014AB	N/A	N/A
C0AE8	Field Sample	0014AB,0020AB	N/A	N/A
C0AE9	Field Sample	0020AB,0014AB	N/A	N/A
C0AF0	Field Sample	0020AB,0014AB	N/A	N/A
C0AF1	Field Sample	0020AB,0014AB	N/A	N/A
C0AF2	Field Sample	0014AB,0020AB	N/A	N/A
C0AF3	Field Sample	0014AB,0020AB	N/A	N/A
C0AF4	Field Sample	0020AB,0014AB	N/A	N/A
C0AF5	Field Sample	0020AB	N/A	N/A
C0AF8	Field Sample	0014AB,0012AB	N/A	N/A
C0AF9	Field Sample	0014AB,0012AB	N/A	N/A
C0AG0	Field Sample	0012AB,0020AB,0014AB	N/A	N/A
C0AG1	Field Sample	0020AB,0014AB,0012AB	N/A	N/A
C0AG1MS	Field Sample	0020AB	N/A	N/A
C0AG1MSD	Field Sample	0020AB	N/A	N/A

**Note:** There are a maximum of 20 **field** samples (excluding PE samples) in an SDG. Attach TR/COC Records to this form in alphanumeric order (the order of Non-responsive based on revised scope of work).

Signature



Date

8/3/18

FORM DC-1  
SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP <small>Non-responsive based on revised scope</small>		Page <u>1</u> of <u>2</u>
Received By (Print Name)	<small>Non-responsive based on revised scope</small>	Log-in Date <u>8/2/2018</u>
Received By (Signature)		
Case Number <u>47768</u>	SDG No. <u>C0AD8 C0AE9</u>	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No.	<u>772870988970</u>
6. Sample Tags	Present
Sample Tag #	Listed on Traffic Report
7. Sample Condition	Intact
8. Shipping Container Temperature Indicator Bottle	Present
9. Shipping Container Temperature	<u>3.1</u> Degree C
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	<u>08/02/2018</u>
12. Time Received	<u>10:15</u>

	EPA Sample #	Corresponding		Remarks: Condition of Sample shipment, etc.
		Sample Tag #	Assigned Lab #	
1	C0AD8	1332,33	J4301-01	Intact
2	C0AD9	1339,40	J4301-02	Intact
3	C0AE1	1348	J4301-03	Intact
4	C0AE3	1355,56	J4301-04	Intact
5	C0AE4	1362,63	J4301-05	Intact
6	C0AE5	1369,70	J4301-06	Intact
7	C0AE6	1376,77	J4301-07	Intact
8	C0AE7	1383,84	J4301-08	Intact
9	C0AE8	1390,91	J4301-09	Intact
10	C0AE9	1397,98	J4301-10	Intact
11	C0AF0	1404,05	J4301-11	Intact
12	C0AF1	1411,12	J4301-12	Intact
13	C0AF2	1418,19	J4301-13	Intact
14	C0AF3	1425,26	J4301-14	Intact
15	C0AF4	1432,33	J4301-15	Intact
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

\* Contact SMO and attach solution

Reviewed By	<small>Non-responsive based on revised scope</small>	Logbook No.
Date	<u>8/2/18</u>	Logbook Page No. <u>2</u>

FORM DC-1  
SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page <u>2</u> of <u>2</u>
Received By (Print Name)	Non-responsive based on revised scope	Log-in Date 8/3/2018
Received By (Signature) [REDACTED]		
Case Number 47768	SDG No. C0AD8 <i>C0AD94</i>	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No.	772870988970
6. Sample Tags	Present
Sample Tag #	Listed on Traffic Report
7. Sample Condition	Intact
8. Shipping Container Temperature Indicator Bottle	Present
9. Shipping Container Temperature	3.1 Degree C
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	08/03/2018
12. Time Received	09:55

	EPA Sample #	Corresponding		Remarks: Condition of Sample shipment, etc.
		Sample Tag #	Assigned Lab #	
1	C0AF5	1440	J4301-16	Intact
2	C0AF8	1455,56,57,58,6	J4301-17	Intact
3	C0AF9	1462,63,64,65,6	J4301-18	Intact
4	C0AG0	1469,70,71,72,7	J4301-19	Intact
5	C0AG1	1476,77,78,79,8	J4301-20	Intact
6	C0AG1MS	1476,77,78,79,8	J4301-21	Intact
7	C0AG1MSD	1476,77,78,79,8	J4301-22	Intact
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

\* Contact SMO and attach Non-responsive based on revised scope resolution

Reviewed By [REDACTED]	Logbook No. <i>2</i>
Date <i>8/3/18</i>	Logbook Page No. <i>2</i>

**SDG NARRATIVE****LAB NAME: CHEMTECH CONSULTING GROUP****CASE: 47768****SDG: C0AD9****CONTRACT: EPW14030****LAB CODE: CHM****CHEMTECH PROJECT: J4301****MODIFICATION REF. NUMBER: N/A**

Sample ID	EPA Sample ID	Test	pH
J4301-01	C0AD8		
J4301-02	C0AD9		
J4301-03	C0AE1		
J4301-04	C0AE3		
J4301-05	C0AE4		
J4301-06	C0AE5		
J4301-07	C0AE6		
J4301-08	C0AE7		
J4301-09	C0AE8		
J4301-10	C0AE9		
J4301-11	C0AF0		
J4301-12	C0AF1		
J4301-12DL	C0AF1DL	PCB	
J4301-13	C0AF2		
J4301-14	C0AF3		
J4301-15	C0AF4		
J4301-16	C0AF5		
J4301-16DL	C0AF5DL	PCB	
J4301-17	C0AF8		
J4301-17	C0AF8		
J4301-17RE	C0AF8RE	VOC	
J4301-18	C0AF9		
J4301-18	C0AF9		
J4301-18RE	C0AF9RE	VOC	
J4301-19	C0AG0		
J4301-19	C0AG0		
J4301-19DL	C0AG0DL	PCB	
J4301-20	C0AG1		
J4301-20	C0AG1		

J4301-21MS	C0AG1MS		
J4301-22MSD	C0AG1MSD		

23 Soil samples were delivered to the laboratory intact on 08/02/2018.

Test requested on the Chain of Custody was Volatile Organic, Semivolatile Organic and Aroclor by Method SOM02.4.

Samples for Volatile Organic analyses were transferred unopened to the Volatile Laboratory. Sample Tags were not received with the samples.

The temperature of the samples was measured using an IR Gun. The samples temperature was 3.1 degrees Celsius.

#### **Shipping Discrepancies and/or QC issues:**

**Issue 1:** The laboratory is scheduled for VOA analysis for soil samples; however, the COC that was received lists TVOA analysis for the soils. The laboratory would like to confirm that they may proceed with the scheduled VOA analysis for the soil samples.

**Resolution 1:** In accordance with previous direction from Region 3, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples as indicated on the Scheduling Notification Form. The resolution will be applied to all COCs received for this Case that list information that does not match the Scheduling Notification Form.

**Issue 2:** The laboratory received soil samples as Terra Cores in 40 ml vials; however, there were no empty vial weights/sample weights listed on the vials. The laboratory was informed by the Region that the vial weights were written on each vial and were below the sample labels. The laboratory was successfully able to remove the sample labels and found the vial weights listed below.

**Resolution 2:** Per Region 3, the laboratory will use the vial weight found under each sample label in order to determine the sample weight. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

#### **Discrepancies with tags, jars, and/or COC**

**Issue 3:** The laboratory has received one cooler under air bill 7728 8038 9905; however, the COC that was received lists the air bill as 7728 7098 8970.

**Resolution 3:** In accordance with previous direction from Region 3, the laboratory will note the discrepancy and confirm that there is no COI if any site information is provided in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

#### **Insufficient/inappropriate designation of laboratory QC**

**Issue 4:** Sample C0AF8 is designated on the COC for laboratory QC; however, ARO analysis is

not required for this sample and laboratory QC is only scheduled for ARO analysis. The laboratory would like to confirm that they may use sample C0AG1 for laboratory QC for ARO analysis as this sample is designated for ARO analysis on the COC.

**Resolution 4:** In accordance with previous direction from Region 3, the laboratory will select a sample for laboratory QC as long as the sample is not a PE, blank, or rinsate sample and the original analysis and laboratory QC can be performed at full volume. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs for this Case.

**Issue 5:** Sample tags were not received with samples at the laboratory. Sample tag numbers may or may not be listed on the TR/COC.

**Resolution 5:** In accordance with previous direction from Region 4, the laboratory will note the issue in the SDG Narrative, and proceed with the analysis of the sample. The Resolution will be applied to all samples received for this Case.

**Issue 6 - UPDATED ISSUE:** PCB analysis was requested under case 47768, sample C0AF5 is contaminated at % level with PCB and no information was given to lab. This sample contaminated the instrument and we spend few days to clean it up. Undiluted analysis is not quantifiable due to saturation so lab will report only undiluted analysis raw data in misc. section of HC, There were several dilution analyzed since to bring concertation with in calibration range. Lab will report 10000x as first analysis and 500000x as further dilution in Hardcopy and EDD. Lab already did GC/MS confirmed we will include data in misc. section of hardcopy.

**Resolution 6 -REGION:** The laboratory's resolution is acceptable to the Region; have the laboratory make note of the issue in their SDG Narrative and proceed with the analysis of the samples.

#### **Low Volatiles:**

The analysis performed on instrument MSVOA\_W were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868. The Trap was supplied by OI Analytical, OI #10 Trap, OI Eclipse 4660 Concentrator. The analysis of VOC-Low Level -10 was based on method SOM02.4\_Low.

The analysis of VOC-Low Level -10 was based on method SOM02.4\_Low.

Surrogate recoveries met the criteria except for the followings:

C0AF8 [1,2-Dichloropropane-d6 - 128%],

C0AF9 [1,2-Dichloropropane-d6 - 135% and 2-Hexanone-d5 - 17%]. As per method, up to 3 surrogates are allowed to fail; therefore no corrective action was required for above mention samples.

The Holding Times were met for all analysis.

Instrument Performance Check met requirements.

The Retention Times were acceptable for all samples.

The Internal Standards Areas met the acceptable requirements except for C0AF8, C0AF8RE, C0AF9 and C0AF9RE. The samples were reanalyzed to confirm the internal standard failure.

The Tuning criteria met requirements.

Trans-1, 3-Dichloropropene-d4 fails to meet criteria for the minimum RRF for all the calibration standards in the run dated 08/02/2018 with W instrument. As per the method up to two Compounds are allowed to fail to meet the minimum criteria for the RRF as long as the compound meets the maximum of 40% RSD. No further corrective action was required.

The Continuing Calibration in file id VICV95 (VW004405.D), VW004414.D, VW004436.D, VW004452.D, VW004474.D, VW004485.D, VW004499.D which is fail to meet the minimum RRF of 0.200 for Trans-1, 3-Dichloropropene-d4. As per method, the % D of 2 Compounds can be fail, therefore no correction required.

The Blank analysis indicated presence of Methylene chloride [7.7 µg/kg] file ID: {VBLK97} in VW0807SBL01 due to possible lab contamination.

The storage blank VHBLK01 (J4301-23) has hit Methylene chloride (8.0µg/kg). The concentration of this compound is below 2XCRQL. As per method, no corrective action was taken.

See **Manual Integration report** for the manual integration information at the end of the case narrative.

#### **Low/Med Level Soil/Sediment Calculation**

$$\text{Concentration in ug/Kg dry Weight basis) } \frac{(A_x)(I_s)(D_f)}{(A_{is}) \text{ (RRF)}(W_s)(D)}$$

Where,

A<sub>x</sub> = Area for the compound to be measured

A<sub>is</sub> = Area for the specific internal standard

I<sub>s</sub> = Amount of internal standard added in Nano grams (ng)

RRF = Relative response factor of the calibration standard.

D<sub>f</sub> = Dilution factor

W<sub>s</sub>= Weight of sample

D=  $\frac{100 - \% \text{ moisture}}{100}$

Calculation or sample C0AG0 for Toluene

A<sub>x</sub>= 105637

I<sub>s</sub>= 250

RRF= 1.551

DF=1

Ais= 811094

Ws= 4.86

D= 0.753

$$\text{Concentration in ug/KG} = \frac{(105637)(250)(1)}{(811094)(1.551)(4.86)(0.753)}$$
$$= 5.74 \text{ ug/Kg}$$

Reported Results      = 5.7 ug/Kg

Relative Response Factor = Tetrachloroethene RUN VW080218 for 25 ppb

$$\text{RRF} = \frac{\text{Area of compound}}{\text{Area of Internal Standard}} \times \frac{\text{Conc. of Internal Standard}}{\text{Conc. of Compound}}$$

$$\text{RRF} = \frac{317847}{1013638} \times \frac{25}{25} = 0.3135$$

RRF= 0.314

## Semivolatiles

The samples were analyzed on instrument BNA\_N using GC Column ZB-GR Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA.

Semivolatile Organic samples for Soil were extracted by Method SOM02.4 on 08/06/18.

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for C0AE7 [1,4-Dioxane-d8 - 28%], C0AE9 [1,4-Dioxane-d8 - 32%], C0AF0 [1,4-Dioxane-d8 - 37%], C0AF1 [1,4-Dioxane-d8 - 32%], C0AF2 [1,4-Dioxane-d8 - 39%], C0AF8 [1,4-Dioxane-d8 - 33%], C0AG0 [1 and 4-Dioxane-d8 - 37%]. As per method four surrogates are allowed to fail. No further corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The %RSD met requirement for initial Calibration for all compounds except for Fluoranthene with dated 07/13/18 with instrument N. As per method four compounds are allowed to fail, not exceed 40%. No further corrective action was taken.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

See **Manual Integration report** for the manual integration information at the end of the case narrative.

#### **Concentration of SOIL Sample:**

Concentration ug/Kg,  
(dry weight basis) = (Ax) (Is) (Vt) (DF) (GPC)

$$(Ais) \overline{(RRF)} (Vi) (Wt) (D)$$

Where,

Ax = Area of the characteristic ion for the compound to be measured.

Ais = Area of the characteristic ion for the internal standard.

Is = Amount of internal standard injected in ng.

Vi = Volume of extract injected in microliters (uL)

Vt = Volume of concentrated extract in microliters (uL)

Wt = Weight of the original sample extracted in g

Df = Dilution factor

---

RRF = Mean Relative Response Factor determined from the initial calibration standard.

GPC = Vin = GPC factor (If no GPC is performed, GPC=1)

Vout = Volume of extract collected after GPC cleanup.

D = % dry weight or  $\frac{100 - \% \text{Moisture}}{100}$

#### **Example calculation of C0AA1 for Dimethylphthalate:**

$$Ax = 723100$$

$$Ais = 590479$$

$$Is = 20$$

$$Vi = 1$$

$$Vt = 500$$

$$Wt = 30.1$$

$$Df = 1$$

$$RRF = 1.661$$

$$GPC = 2$$

D= 0.817

Concentration

$$\text{(dry weight basis) ug/Kg} = \frac{(723100)(20)(500)(1)(2)}{(590479)(1.661)(1)(30.1)(0.817)}$$
$$= 600 \text{ ug/Kg}$$

RRF Calculation of standard 20 ppb for **Naphthalene** with instrument N for method 07/13/18

$$\text{RRF} = \frac{\text{Area of compound}}{\text{Area of Internal Standard}} \times \frac{\text{Conc. of Internal Standard}}{\text{Conc. of Compound}}$$
$$= 2100102/2030733 \times 20/20$$
$$= 1.034 \text{ (Reported RRF)}$$

**Aroclors:**

The analyses were performed on instrument GCECD\_R. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.

Samples were analyzed on a single injection dual column system. To distinguish the second column analysis from the first column a -2 suffix was added to the file id on the form 8 and form 1. This refers to forms where both columns are reported. Form 1s for the IBLK, MS, MSD and ALCS have the -2 on the form.

Aroclor samples were extracted by Method SOM02.4 on 08/03/2018 and analyzed on 08/08,09/2018. All the samples were subjected to a Sulfuric acid cleanup. The samples were extracted and analyzed within contractual holding time.

The Surrogate recoveries met the requirements except for;

C0AF1 DCB [182%, 161%] on the both columns,  
C0AF1DL DCB [186%, 176%] on the both column,  
C0AF5 and C0AF5DL [0%, 0%] on both column

The SOW allows one surrogate to fail to meet the criteria per column. (Section 11.3.6 of Exhibit D Aroclor Analysis). No further corrective action was taken.

C0AG1MS/MSD met the requirements except for AR1016 on the MS on the first column. No corrective action is required for failure to meet the MS/MSD criteria by the SOW. (Section 12.2.5.5 of Exhibit D Aroclor Analysis).

The RPD met the requirements.

The Retention Times met requirements except for C0AF5 and C0AF5DL due to the sample dilution.

The Laboratory Control Sample met requirements.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuing Calibrations met the requirements.

Samples C0AF1 and C0AF5 were diluted due to the high concentration of AR1254.

Sample C0AF5 was analyzed diluted first due to the high concentration of AR1254 in the sample. A dilution at a lower CRQL was not possible. The lab notified EPA of this issue. Please see the communication in the Shipping and QC Discrepancies section and the communication logs section.

See **Manual Integration report** for the manual integration information at the end of the case narrative.

Calculation for Concentration in Soil samples:

$$\text{Concentration ug/Kg (Dry weight basis)} = \frac{(Ax)(Vt)(DF)(GPC)}{(CF)(Vi)(Ws)(D)}$$

Where,

Ax = Response (peak area or height) of the compound to be measured.

CF = Mean Calibration Factor from the initial calibration (area/ng).

Vt = Volume of the concentrated extract in uL

Vi = Volume of extract injected (uL). (If a single injection is made onto two columns, use ½ the volume in the syringe as the volume injected onto each column).

Ws = Weight of sample extracted (g).

D = % dry weight or  $\frac{100 - \% \text{Moisture}}{100}$

GPC =  $\frac{V_{in}}{V_{out}}$  = GPC factor (If no GPC is performed, GPC=1)

DF = Dilution Factor

Example of AR1254 calculation for Peak 1

Calibration factor Peak 1 100ppb ISTD=  $\frac{\text{peak area}}{\text{Mass injected ng}}$   
Column 2

$$= \frac{155800000}{0.100}$$

= 1558000000 calibration factor for Peak 1 100ppb AR1254

Average of 5 peaks = 1284420853

Sample C0AF1DL

Ax = 1292800000

CF = 1284420853

Vt = 10000

Vi = 1.0

Ws = 30.1

D = 0.78

GPC = 1.0

DF = 5.0

$$\text{Concentration ug/Kg (Dry weight basis)} = \frac{(Ax) (Vt) (DF) (GPC)}{(CF) (Vi) (Ws) (D)}$$

$$= \frac{(1292800000)(10000)(1.0)(5.0)}{(1284420853)(1.0)(30.1)(0.78)}$$

Peak 1 = 2143.5464

Average of 5 peaks = 2444.6933

Reported results = 2400 ug/kg

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Non-responsive based on revised scope

Signature

Name:

Non-responsive based on revised scope

Date: 8/22/18

Title: Document Control Officer

FORM 2A-OR  
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030  
 Lab Code : CHM Case No.: 47768 MA No.: SDG No.: C0AD9  
 Analytical Method : VOA Level : LOW  
 Matrix : Soil

EPA Sample No .	DMC1 (VCL)	DMC2 (CLA)	DMC3 (DCE)	DMC4 (BUT)	DMC5 (CLF)	DMC6 (DCA)	DMC7 (BEN)	DMC8 (DPA)
VBLK96	94	92	68	103	93	99	88	92
C0AF8	123	121	80	29	108	109	121	128 *
C0AF9	136	134	90	21	118	115	128	135 *
C0AG0	113	110	79	84	104	109	99	101
C0AG1	113	105	78	110	101	113	95	99
VBLK97	79	83	60	91	83	85	82	85
C0AF9RE	87	89	64	64	91	92	100	106
C0AF8RE	81	86	62	71	92	97	99	103
VHBLK01	84	85	63	109	90	93	85	85

QC LIMITS

DMC1 (VCL) = Vinyl Chloride-d3	(30-150)
DMC2 (CLA) = Chloroethane-d5	(30-150)
DMC3 (DCE) = 1,1-Dichloroethene-d2	(45-110)
DMC4 (BUT) = 2-Butanone-d5	(20-135)
DMC5 (CLF) = Chloroform-d	(40-150)
DMC6 (DCA) = 1,2-Dichloroethane-d4	(70-130)
DMC7 (BEN) = Benzene-d6	(20-135)
DMC8 (DPA) = 1,2-Dichloropropane-d6	(70-120)

FORM 2B-OR  
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030  
 Lab Code : CHM Case No.: 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method : VOA Level : LOW  
 Matrix : Soil

EPA Sample No .	DMC9 (TOL)	DMC10 (TDP)	DMC11 (HEX)	DMC12 (TCA)	DMC13 (DCZ)	DMC14	DMC15	DMC16	TOT OUT
VBLK96	85	85	93	92	101				0
C0AF8	96	61	24	88	97				1
C0AF9	110	68	17 *	91	110				2
C0AG0	95	89	77	90	108				0
C0AG1	91	89	102	101	109				0
VBLK97	81	80	87	85	92				0
C0AF9RE	86	81	67	84	92				0
C0AF8RE	87	82	71	92	95				0
VHBLK01	79	77	97	92	98				0

QC LIMITS

DMC9 (TOL) = Toluene-d8	(30-130)
DMC10 (TDP) = trans-1,3-Dichloropropene-d4	(30-135)
DMC11 (HEX) = 2-Hexanone-d5	(20-135)
DMC12 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(45-120)
DMC13 (DCZ) = 1,2-Dichlorobenzene-d4	(75-120)

FORM 4-OR  
METHOD BLANK SUMMARY

VBLK96

Lab Name : Chemtech Consulting Group  
 Lab Code: CHM Case No.: 47768  
 Analytical Method: VOA  
 Matrix : Soil  
 Instrument ID: MSVOA\_W  
 Extraction Type : PT  
 GC Column ( ) : RXI-624 ID : 0.25 (mm)  
 GC Column ( ) : ID : (mm)  
 Heated Purge: (Y/N) Y Cleanup (Y/N):

Contract : EPW14030  
 MA No. : SDG No.: C0AD9  
 Level : LOW  
 Lab Sample ID: VW0802SBL04  
 Lab File ID : VW004453.D  
 Date Extracted :  
 Date Analyzed : 08/03/2018  
 Time Analyzed : 17:49  
 Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
C0AF8	J4301-17	VW004467.D	08/04/2018 00:06
C0AF9	J4301-18	VW004468.D	08/04/2018 00:32
C0AG0	J4301-19	VW004469.D	08/04/2018 00:58
C0AG1	J4301-20	VW004470.D	08/04/2018 01:24

FORM 4-OR  
METHOD BLANK SUMMARY

VBLK97

Lab Name : Chemtech Consulting Group  
 Lab Code: CHM Case No.: 47768  
 Analytical Method: VOA  
 Matrix : Soil  
 Instrument ID: MSVOA\_W  
 Extraction Type : PT  
 GC Column ( ) : RXI-624 ID : 0.25 (mm)  
 GC Column ( ) : ID : (mm)  
 Heated Purge: (Y/N) Y Cleanup (Y/N):

Contract : EPW14030  
 MA No. : SDG No.: C0AD9  
 Level : LOW  
 Lab Sample ID: VW0807SBL01  
 Lab File ID : VW004486.D  
 Date Extracted :  
 Date Analyzed : 08/07/2018  
 Time Analyzed : 09:35  
 Cleanup Types :

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
C0AF9RE	J4301-18RE	VW004489.D	08/07/2018 11:55
C0AF8RE	J4301-17RE	VW004490.D	08/07/2018 12:21
VHBLK01	J4301-23	VW004497.D	08/07/2018 15:22

FORM 5-OR  
GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

BFB91

Lab Name : Chemtech Consulting Group  
 Lab Code: CHM Case No.: 47768  
 Analytical Method : VOA  
 Instrument ID: MSVOA\_W  
 GC Column : RXI-624 ID : 0.25 (mm) :  
 Injection Date : 08/02/2018

Contract : EPW14030  
 MA No.: SDG No.: C0AD9  
 Lab File ID : VW004397.D  
 BFB / DFTPP : BFB  
 Injection Time: 12:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.9
75	30.0 - 80.0% of mass 95	48.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.5(0.6) 1
174	50.0 - 120% of mass 95	85.8
175	5.0 - 9.0% of mass 174	6.5(7.6) 1
176	95.0 - 101% of mass 174	82.7(96.4) 1
177	5.0 - 9.0% of mass 176	5.8(7.1) 2

EPA SAMPLE NO.	LAB SAMPLE	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD00590	VSTD00590	VW004399.D	08/02/2018	13:17
VSTD02591	VSTD02591	VW004400.D	08/02/2018	13:43
VSTD05092	VSTD05092	VW004401.D	08/02/2018	14:09
VSTD10093	VSTD10093	VW004402.D	08/02/2018	14:34
VSTD2.594	VSTD2.594	VW004404.D	08/02/2018	16:17
VICV95	VSTDICV025	VW004405.D	08/02/2018	17:16
VSTD02596	VSTDCCC025	VW004414.D	08/02/2018	22:30
VSTD02597	VSTDCCC025	VW004436.D	08/03/2018	08:48
VSTD02598	VSTDCCC025	VW004452.D	08/03/2018	17:12
VBLK96	VW0802SBL04	VW004453.D	08/03/2018	17:49
C0AF8	J4301-17	VW004467.D	08/04/2018	00:06
C0AF9	J4301-18	VW004468.D	08/04/2018	00:32
C0AG0	J4301-19	VW004469.D	08/04/2018	00:58
C0AG1	J4301-20	VW004470.D	08/04/2018	01:24
VSTD02599	VSTDCCC025EC	VW004474.D	08/04/2018	03:07

FORM 5-OR  
GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

BFB92

Lab Name : Chemtech Consulting Group  
 Lab Code: CHM Case No.: 47768  
 Analytical Method : VOA  
 Instrument ID: MSVOA\_W  
 GC Column : RXI-624 ID : 0.25 (mm) :  
 Injection Date : 08/07/2018

Contract : EPW14030  
 MA No.: SDG No.: C0AD9  
 Lab File ID : VW004484.D  
 BFB / DFTPP : BFB  
 Injection Time: 08:18

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.4
75	30.0 - 80.0% of mass 95	47.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0(0.0) 1
174	50.0 - 120% of mass 95	82.8
175	5.0 - 9.0% of mass 174	6.3(7.6) 1
176	95.0 - 101% of mass 174	79.3(95.7) 1
177	5.0 - 9.0% of mass 176	5.3(6.7) 2

EPA SAMPLE NO.	LAB SAMPLE	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD02581	VSTDCCC025	VW004485.D	08/07/2018	08:56
VBLK97	VW0807SBL01	VW004486.D	08/07/2018	09:35
C0AF9RE	J4301-18RE	VW004489.D	08/07/2018	11:55
C0AF8RE	J4301-17RE	VW004490.D	08/07/2018	12:21
VHBLK01	J4301-23	VW004497.D	08/07/2018	15:22
VSTD02582	VSTDCCC025EC	VW004499.D	08/07/2018	16:27

FORM 8A-OR  
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No.: 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: VOA Level : LOW  
 EPA Sample No. : VSTD02598 Lab File ID (Standard) : VW004452.D  
 Instrument ID : MSVOA\_W Init.Calib.Date(s) : 08/02/2018  
 GC Column : RXI-624 ID: 0.25 (mm) Date Analyzed : 08/03/2018  
 Heated Purge: (Y/N) Y Time Analyzed : 17:12

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT
12 HOUR STD	914401	8.84	890173	11.63	456342	13.57
UPPER LIMIT	1828800	9.01	1780350	11.8	912684	13.74
LOWER LIMIT	457201	8.67	445087	11.46	228171	13.4
EPA SAMPLE NO.						
VBLK96	847203	8.85	867011	11.63	381054	13.57
C0AF8	604227	8.85	474686	11.63	127572 *	13.57
C0AF9	693181	8.85	567878	11.63	160419 *	13.57
C0AGO	798526	8.85	811094	11.63	308691	13.57
C0AG1	811428	8.85	836964	11.63	359956	13.57

IS1 (DFB) = 1,4-Difluorobenzene

IS2 (CBZ) = Chlorobenzene-d5

IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = +0.17 minutes of internal standard RT

RT LOWER LIMIT = -0.17 minutes of internal standard RT

FORM 8A-OR  
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No.: 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: VOA Level : LOW  
 EPA Sample No. : VSTD02581 Lab File ID (Standard) : VW004485.D  
 Instrument ID : MSVOA\_W Init.Calib.Date(s) : 08/02/2018  
 GC Column : RXI-624 ID: 0.25 (mm) Date Analyzed : 08/07/2018  
 Heated Purge: (Y/N) Y Time Analyzed : 08:56

	IS1 (DFB) AREA	RT	IS2 (CBZ) AREA	RT	IS3 (DCB) AREA	RT
12 HOUR STD	1032100	8.85	992468	11.63	507285	13.57
UPPER LIMIT	2064200	9.02	1984940	11.8	1014570	13.74
LOWER LIMIT	516050	8.68	496234	11.46	253643	13.4
EPA SAMPLE NO.						
VBLK97	864700	8.85	863000	11.63	396082	13.57
C0AF9RE	701630	8.85	596029	11.63	188527 *	13.57
C0AF8RE	827465	8.85	726359	11.63	236312 *	13.57
VHBLK01	758764	8.85	769369	11.63	331376	13.57

IS1 (DFB) = 1,4-Difluorobenzene

IS2 (CBZ) = Chlorobenzene-d5

IS3 (DCB) = 1,4-Dichlorobenzene -d4

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = +0.17 minutes of internal standard RT

RT LOWER LIMIT = -0.17 minutes of internal standard RT

# Sample Summary Report

**Project Name:** SHILO CHURCH ROAD SITE  
**Project**

**GroupID:** 47768/EPW14030/C0AG2

**Lab Name:** Chemtech Consulting Group

Sample Number: C0AG2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SCR	pH: 1.0	Sample Date: 08/01/2018	Sample Time: 14:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC			ug/L			1.0	YES	NV
unknown-01	TIC	1.6	J	ug/L	1.6	J	1.0	YES	NV

FORM 2A-OR  
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name : Chemtech Consulting Group

Contract: EPW14030

Lab Code CHM Case No 47768

MA No.: SDG No.: C0AD9

Analytical Method : SVOA

Level Low

Matrix Soil

EPA Sample No .	DMC1 (DXE)	DMC2 (PHL)	DMC3 (BCE)	DMC4 (2CP)	DMC5 (4MP)	DMC6 (NBZ)	DMC7 (2NP)	DMC8 (DCP)	DMC9 (4CA)
C0AD8	51	48	77	51	48	52	50	48	58
C0AD9	58	55	60	57	52	62	60	55	61
C0AE1	49	52	56	53	53	57	54	51	61
C0AE3	43	48	53	50	48	54	51	48	8
C0AE4	45	48	53	50	49	55	51	48	50
C0AE5	47	44	49	46	45	51	47	44	50
C0AE6	58	52	60	56	48	64	55	52	4
C0AE7	28 *	31	33	32	32	34	32	31	32
C0AE8	44	47	52	49	47	54	51	47	46
C0AE9	32 *	37	44	39	38	47	33	37	17
C0AF0	37 *	39	43	41	38	44	40	38	9
C0AF1	32 *	32	36	34	30	38	35	33	34
C0AF2	39 *	45	54	48	47	56	40	44	11
C0AF3	59	58	67	62	55	68	65	60	61
C0AF4	58	55	63	59	49	66	63	57	38
C0AF8	33 *	31	37	34	28	39	35	32	31
C0AF9	45	42	52	47	40	53	49	44	44
C0AG0	37 *	38	46	42	38	49	39	38	19
C0AG1	69	65	70	68	65	73	69	64	69
SBLK84	80	77	85	80	80	86	82	76	99

QC LIMITS

DMC1 (DXE) = 1,4-Dioxane-d8	40	-	110
DMC2 (PHL) = Phenol-d5	10	-	130
DMC3 (BCE) = Bis (2-Chloroethyl)ether-d8	10	-	150
DMC4 (2CP) = 2-Chlorophenol-d4	15	-	120
DMC5 (4MP) = 4-Methylphenol-d8	10	-	140
DMC6 (NBZ) = Nitrobenzene-d5	10	-	135
DMC7 (2NP) = 2-Nitrophenol-d4	10	-	120
DMC8 (DCP) = 2,4-Dichlorophenol-d3	10	-	140
DMC9 (4CA) = 4-Chloroaniline-d4	1	-	145

FORM 2B-OR  
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name : Chemtech Consulting Group  
 Lab Code : CHM Case No.: 47768  
 Analytical Method : SVOA  
 Matrix : Soil

Contract : EPW14030  
 MA No.:                  SDG No.: C0AD9  
 Level : Low

EPA Sample No .	DMC10 (DMP)	DMC11 ACY	DMC12 (4NP)	DMC13 (FLR)	DMC14 (NMP)	DMC15 (ANC)	DMC16 (PYR)	DMC17 (BAP)	Tot Out
C0AD8	54	57	32	51	41	56	58	54	0
C0AD9	62	65	45	60	53	65	73	61	0
C0AE1	57	59	39	57	45	59	71	56	0
C0AE3	55	56	35	53	42	57	66	53	0
C0AE4	53	56	34	52	41	56	63	52	0
C0AE5	49	52	31	48	36	52	53	49	0
C0AE6	62	64	28	62	34	65	66	60	0
C0AE7	36	36	24	35	26	37	44	35	1
C0AE8	54	56	34	52	41	55	61	52	0
C0AE9	41	48	19	45	21	49	50	45	1
C0AF0	43	45	25	41	27	45	47	41	1
C0AF1	40	40	22	38	27	41	43	39	1
C0AF2	45	56	24	52	25	56	59	52	1
C0AF3	67	69	48	65	54	69	82	63	0
C0AF4	64	66	40	62	48	66	69	60	0
C0AF8	40	41	18	39	29	42	45	41	1
C0AF9	53	55	24	51	38	56	62	54	0
C0AG0	43	48	19	45	24	49	50	44	1
C0AG1	70	75	46	68	56	72	76	67	0
SBLK84	90	90	63	86	75	93	107	90	0

OC LIMITS

DMC10 (DMP) = Dimethylphthalate-d6	10 - 145
DMC11 (ACY) = Acenaphthylene-d8	15 - 120
DMC12 (4NP) = 4-Nitrophenol-d4	10 - 150
DMC13 (FLR) = Fluorene-d10	20 - 140
DMC14 (NMP) = 4,6-Dinitro-2-methylphenol-d2	10 - 130
DMC15 (ANC) = Anthracene-d10	10 - 150
DMC16 (PYR) = Pyrene-d10	10 - 130
DMC17 (BAP) = Benzo(a)pyrene-d12	10 - 140

FORM 4-OR  
METHOD BLANK SUMMARY

SBLK84

Lab Name : Chemtech Consulting Group Contract : EPW14030  
 Lab Code: CHM Case No.: 47768 MA No. : \_\_\_\_\_ sdg no.: C0AD9  
 Analytical Method: SVOA Level : Low  
 Matrix : Soil Lab Sample ID: PB111784BL  
 Instrument ID: BNA\_N Lab File ID : BN002259.D  
 Extraction Type : SOXH Date Extracted : 08/06/2018  
 GC Column ( ) : ZB-GR ID : 0.25 (mm) Date Analyzed : 08/09/2018  
 GC Column ( ) : \_\_\_\_\_ ID : \_\_\_\_\_ (mm) Time Analyzed : 12:51  
 Heated Purge: (Y/N) \_\_\_\_\_ Cleanup(Y/N): Y Cleanup Types : GPC

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
COAE1	J4301-03	BN002260.D	08/09/2018 13:26
COAE3	J4301-04	BN002261.D	08/09/2018 14:02
COAD8	J4301-01	BN002262.D	08/09/2018 14:37
COAD9	J4301-02	BN002263.D	08/09/2018 15:12
COAE4	J4301-05	BN002264.D	08/09/2018 15:48
COAE8	J4301-09	BN002265.D	08/09/2018 16:23
COAE7	J4301-08	BN002267.D	08/09/2018 17:34
COAE6	J4301-07	BN002268.D	08/09/2018 18:10
COAE5	J4301-06	BN002269.D	08/09/2018 18:45
COAF3	J4301-14	BN002270.D	08/09/2018 19:21
COAF2	J4301-13	BN002271.D	08/09/2018 19:56
COAF9	J4301-18	BN002272.D	08/09/2018 20:32
COAG1	J4301-20	BN002273.D	08/09/2018 21:07
COAGO	J4301-19	BN002274.D	08/09/2018 21:43
COAF8	J4301-17	BN002275.D	08/09/2018 22:18
COAF4	J4301-15	BN002276.D	08/09/2018 22:54
COAF1	J4301-12	BN002277.D	08/09/2018 23:29
COAF0	J4301-11	BN002278.D	08/10/2018 00:05
COAE9	J4301-10	BN002279.D	08/10/2018 00:40

FORM 5-OR  
GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

DFTPP90

Lab Name : Chemtech Consulting Group  
 Lab Code: CHM Case No.: 47768  
 Analytical Method : SVOA  
 Instrument ID: BNA\_N  
 GC Column : ZB-GR ID : 0.25 (mm)  
 Injection Date : 07/13/2018

Contract : EPW14030  
 MA No. : SDG No.: C0AD9  
 Lab File ID : BN002027.D  
 BFB / DFTPP : DFTPP  
 Injection Time : 10:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.3
68	Less than 2.0% of mass 69	0.6(1.6) 1
69	Present	37.8
70	Less than 2.0% of mass 69	0.2(0.5) 1
127	10.0 - 80.0% of mass 198	46.1
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	25.5
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	13.4
442	Greater than 50.0% of mass 198	87
443	15.0 - 24.0% of mass 442	16.9(19.4) 2

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD00501	SSTD00501	BN002028.D	07/13/2018	11:32
SSTD01002	SSTD01002	BN002029.D	07/13/2018	12:08
SSTD02003	SSTD02003	BN002030.D	07/13/2018	12:43
SSTD04004	SSTD04004	BN002031.D	07/13/2018	13:18
SSTD08005	SSTD08005	BN002032.D	07/13/2018	13:53
SSTD16006	SSTD16006	BN002033.D	07/13/2018	14:28
SICV07	SSTDICV020	BN002034.D	07/13/2018	15:10

FORM 5-OR  
GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

DFTPP98

Lab Name : Chemtech Consulting Group  
 Lab Code: CHM Case No.: 47768  
 Analytical Method : SVOA  
 Instrument ID: BNA\_N  
 GC Column : ZB-GR ID : 0.25 (mm)  
 Injection Date : 08/09/2018

Contract : EPW14030  
 MA No. : \_\_\_\_\_ SDG No.: C0AD9  
 Lab File ID : BN002257.D  
 BFB / DFTPP : DFTPP  
 Injection Time : 11:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.6
68	Less than 2.0% of mass 69	0.6(1.7) 1
69	Present	38.4
70	Less than 2.0% of mass 69	0.2(0.6) 1
127	10.0 - 80.0% of mass 198	47.1
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	14.2
442	Greater than 50.0% of mass 198	93.5
443	15.0 - 24.0% of mass 442	18.5(19.8) 2

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD02029	SSTDCCC020	BN002258.D	08/09/2018	11:40
SBLK84	PB111784BL	BN002259.D	08/09/2018	12:51
C0AE1	J4301-03	BN002260.D	08/09/2018	13:26
C0AE3	J4301-04	BN002261.D	08/09/2018	14:02
C0AD8	J4301-01	BN002262.D	08/09/2018	14:37
C0AD9	J4301-02	BN002263.D	08/09/2018	15:12
C0AE4	J4301-05	BN002264.D	08/09/2018	15:48
C0AE8	J4301-09	BN002265.D	08/09/2018	16:23
SSTD02030	SSTDCCC020	BN002266.D	08/09/2018	16:59
C0AE7	J4301-08	BN002267.D	08/09/2018	17:34
C0AE6	J4301-07	BN002268.D	08/09/2018	18:10
C0AE5	J4301-06	BN002269.D	08/09/2018	18:45
C0AF3	J4301-14	BN002270.D	08/09/2018	19:21
C0AF2	J4301-13	BN002271.D	08/09/2018	19:56
C0AF9	J4301-18	BN002272.D	08/09/2018	20:32
C0AG1	J4301-20	BN002273.D	08/09/2018	21:07
C0AG0	J4301-19	BN002274.D	08/09/2018	21:43
C0AF8	J4301-17	BN002275.D	08/09/2018	22:18
C0AF4	J4301-15	BN002276.D	08/09/2018	22:54
C0AF1	J4301-12	BN002277.D	08/09/2018	23:29
C0AF0	J4301-11	BN002278.D	08/10/2018	00:05
C0AE9	J4301-10	BN002279.D	08/10/2018	00:40
SSTD02031	SSTDCCC020EC	BN002280.D	08/10/2018	01:15

FORM 8A-OR  
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No.: 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: SVOA Level : LOW  
 EPA Sample No. : SSTD02029 Lab File ID (Standard) : BN002258.D  
 Instrument ID : BNA\_N Init.Calib.Date(s) : 07/13/2018  
 GC Column : ZB-GR ID: 0.25 (mm) Date Analyzed : 08/09/2018  
 Heated Purge: Time Analyzed : 11:40

	IS1 (DCB) AREA	RT	IS2 (NPT) AREA	RT	IS3 (ANT) AREA	RT
12 HOUR STD	278348	7.69	1248040	10.46	703460	14.32
UPPER LIMIT	556696	8.19	2496080	10.96	1406920	14.82
LOWER LIMIT	139174	7.19	624020	9.96	351730	13.82
EPA SAMPLE NO.						
C0AE8	285271	7.69	1237510	10.46	650516	14.32
SBLK84	251241	7.69	1130460	10.46	622853	14.32
C0AE1	291714	7.69	1309180	10.46	728963	14.32
C0AD8	257323	7.69	1138560	10.46	590479	14.32
C0AE3	279131	7.69	1242800	10.46	681024	14.32
C0AD9	290967	7.69	1282530	10.46	680411	14.32
C0AE4	306606	7.69	1332700	10.46	715001	14.32

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 8A-OR  
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No.: 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: SVOA Level : LOW  
 EPA Sample No. : SSTD02029 Lab File ID (Standard) : BN002258.D  
 Instrument ID : BNA\_N Init.Calib.Date(s) : 07/13/2018  
 GC Column : ZB-GR ID: 0.25 (mm) Date Analyzed : 08/09/2018  
 Heated Purge: Time Analyzed : 11:40

	IS4 (PHN) AREA	RT	IS5 (CRY) AREA	RT	IS6 (PRY) AREA	RT
12 HOUR STD	1451730	17.07	1050640	21.26	943376	23.49
UPPER LIMIT	2903460	17.57	2101280	21.76	1886750	23.99
LOWER LIMIT	725865	16.57	525320	20.76	471688	22.99
EPA SAMPLE NO.						
C0AE8	1214250	17.06	929409	21.26	958867	23.49
SBLK84	1194320	17.06	854433	21.26	854104	23.49
C0AE1	1435270	17.06	1003660	21.26	977559	23.49
C0AD8	1074450	17.06	911224	21.26	962891	23.49
C0AE3	1304910	17.06	937892	21.26	942574	23.49
C0AD9	1268780	17.06	947389	21.26	982240	23.49
C0AE4	1328560	17.06	992271	21.26	1041050	23.49

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 8A-OR  
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No.: 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: SVOA Level : LOW  
 EPA Sample No. : SSTD02030 Lab File ID (Standard) : BN002266.D  
 Instrument ID : BNA\_N Init.Calib.Date(s) : 07/13/2018  
 GC Column : ZB-GR ID: 0.25 (mm) Date Analyzed : 08/09/2018  
 Heated Purge: Time Analyzed : 16:59

	IS1 (DCB) AREA	RT	IS2 (NPT) AREA	RT	IS3 (ANT) AREA	RT
12 HOUR STD	265594	7.69	1164650	10.46	630662	14.32
UPPER LIMIT	531188	8.19	2329300	10.96	1261320	14.82
LOWER LIMIT	132797	7.19	582325	9.96	315331	13.82
EPA SAMPLE NO.						
C0AE7	308337	7.69	1363530	10.46	751668	14.32
C0AF9	249382	7.69	1087380	10.46	563421	14.32
C0AGO	256336	7.69	1077380	10.46	541537	14.32
C0AG1	243751	7.69	1033040	10.46	509972	14.32
C0AE5	270731	7.69	1132480	10.46	560804	14.32
C0AE6	242253	7.69	985662	10.46	489773	14.32
C0AF1	274379	7.69	1124590	10.46	547157	14.32
C0AF2	251971	7.69	1084450	10.46	548548	14.32
C0AF3	269236	7.69	1211730	10.46	677799	14.32
C0AF4	278421	7.69	1172780	10.46	589876	14.32
C0AF8	270128	7.69	1146490	10.46	566946	14.32
C0AE9	261339	7.69	1105470	10.46	554419	14.32
C0AF0	275446	7.69	1202320	10.46	615148	14.32

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 8A-OR  
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No.: 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: SVOA Level : LOW  
 EPA Sample No. : SSTD02030 Lab File ID (Standard) : BN002266.D  
 Instrument ID : BNA\_N Init.Calib.Date(s) : 07/13/2018  
 GC Column : ZB-GR ID: 0.25 (mm) Date Analyzed : 08/09/2018  
 Heated Purge: Time Analyzed : 16:59

	IS4 (PHN) AREA	RT	IS5 (CRY) AREA	RT	IS6 (PRY) AREA	RT
12 HOUR STD	1228130	17.06	862421	21.26	857625	23.49
UPPER LIMIT	2456260	17.56	1724840	21.76	1715250	23.99
LOWER LIMIT	614065	16.56	431211	20.76	428813	22.99
EPA SAMPLE NO.						
C0AE7	1491140	17.06	1068640	21.26	1041560	23.49
C0AF9	1023840	17.06	826736	21.26	864314	23.49
C0AG0	1005010	17.06	888616	21.26	925273	23.49
C0AG1	955525	17.06	818066	21.26	867548	23.49
C0AE5	1055800	17.06	949155	21.26	991543	23.49
C0AE6	968492	17.06	913850	21.26	959335	23.49
C0AF1	1039280	17.06	949066	21.26	994259	23.49
C0AF2	1012250	17.06	861736	21.26	896607	23.49
C0AF3	1370100	17.06	972584	21.26	915573	23.49
C0AF4	1080240	17.06	943746	21.26	987782	23.49
C0AF8	1059370	17.06	932639	21.26	982280	23.49
C0AE9	1027540	17.06	927809	21.26	969313	23.49
C0AF0	1121160	17.06	947405	21.26	985976	23.49

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

FORM 6A-OR  
GC/MS INITIAL CALIBRATION DATA

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No.: 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method : SVOA Level : \_\_\_\_\_  
 Instrument ID: BNA\_N Calibration Date(s): 07/13/2018 07/13/2018  
 GC Column: ZB-GR ID: 0.25 (mm) Calibration Time(s): 11:32 14:28  
 Length : 30 (m) Heated Purge: (Y/N) Purge Volume : \_\_\_\_\_ (mL)

LAB FILE ID:	RRF005 =BN002028.D	RRF010= BN002029.D	RRF020 =BN002030.D					
ANALYTE	RRF005	RRF010	RRF020	RRF040	RRF080	RRF160	RRF	% RSD
Acenaphthene	1.484	1.452	1.382	1.398	1.271		1.397	5.9
2,4-Dinitrophenol		0.162	0.186	0.220	0.226	0.238	0.206	15.3
4-Nitrophenol		0.227	0.226	0.238	0.221	0.220	0.226	3.2
Dibenzofuran	2.127	2.079	1.956	1.974	1.736		1.974	7.7
2,4-Dinitrotoluene	0.502	0.520	0.506	0.531	0.485		0.509	3.4
Diethylphthalate	1.770	1.757	1.685	1.701	1.518		1.686	6.0
Fluorene	1.731	1.679	1.566	1.554	1.351		1.576	9.3
4-Chlorophenyl-phenylether	0.860	0.828	0.776	0.771	0.679		0.783	8.8
4-Nitroaniline		0.422	0.402	0.430	0.364	0.384	0.401	6.8
4,6-Dinitro-2-methylphenol		0.128	0.132	0.142	0.138	0.134	0.135	3.9
N-Nitrosodiphenylamine	0.644	0.639	0.609	0.608	0.560		0.612	5.5
4-Bromophenyl-phenylether	0.227	0.225	0.217	0.221	0.210		0.220	3.0
1,2,4,5-Tetrachlorobenzene	0.678	0.672	0.636	0.647	0.609		0.649	4.3
Hexachlorobenzene	0.256	0.251	0.240	0.245	0.226		0.244	4.7
Atrazine		0.234	0.228	0.232	0.215	0.195	0.221	7.3
Pentachlorophenol		0.128	0.132	0.148	0.143	0.142	0.139	6.0
Phenanthrene	1.212	1.190	1.118	1.123	0.974		1.123	8.3
Anthracene	1.243	1.219	1.144	1.143	0.972		1.144	9.3
Carbazole		1.095	1.031	1.044	0.901	0.768	0.968	13.7
Di-n-butylphthalate	1.356	1.363	1.302	1.294	1.082		1.279	9.0
Fluoranthene		1.410	1.319	1.323	1.092	0.817	1.192	20.2
Pyrene	1.336	1.346	1.280	1.265	1.190		1.283	4.9
Butylbenzylphthalate	0.612	0.617	0.599	0.614	0.607		0.610	1.2
3,3-Dichlorobenzidine		0.440	0.472	0.471	0.378	0.359	0.424	12.4
Benzo(a)anthracene	1.356	1.337	1.261	1.273	1.143		1.274	6.6
Chrysene	1.273	1.259	1.189	1.171	1.045		1.187	7.6
Bis(2-ethylhexyl)phthalate	0.920	0.903	0.853	0.851	0.789		0.863	6.0
Di-n-octyl phthalate		1.499	1.428	1.385	1.343	0.913	1.314	17.6
Benzo(b)fluoranthene	1.291	1.257	1.187	1.236	1.185		1.231	3.7
Benzo(k)fluoranthene	1.225	1.250	1.169	1.130	1.072		1.169	6.1
Benzo(a)pyrene	1.225	1.238	1.153	1.161	1.071		1.170	5.7
Indeno(1,2,3-cd)pyrene	1.472	1.441	1.349	1.386	1.112		1.352	10.5
Dibenzo(a,h)anthracene	1.249	1.216	1.122	1.149	0.922		1.132	11.3

FORM 2C-OR  
SURROGATE RECOVERY

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No.: 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: ARO  
 Matrix: Soil  
 GC Column(1) : ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)

EPA SAMPLE	SUR(TCX) 1-1 %R	SUR(TCX) 1-2 %R	SUR(DCB) 2-1 %R	SUR(DCB) 2-2 %R	OTHER (1)	OTHER (2)	TOT OUT
ABLK61	112	107	110	99			0
ALCS61	90	85	116	104			0
C0AD8	106	104	90	84			0
C0AD9	75	81	80	76			0
C0AE3	71	76	83	78			0
C0AE4	81	85	105	99			0
C0AE5	74	81	69	65			0
C0AE6	70	75	72	71			0
C0AE7	74	82	95	89			0
C0AE8	84	93	100	91			0
C0AE9	77	84	90	83			0
C0AF0	87	92	100	93			0
C0AF1	95	103	182 *	161 *			2
C0AF1DL	99	108	186 D	176 D			2
C0AF2	86	91	90	85			0
C0AF3	78	85	108	101			0
C0AF4	83	87	102	95			0
C0AF5	0 *	0 *	0 *	0 *			4
C0AF5DL	0 D	0 D	0 D	0 D			4
C0AG0	79	86	96	87			0
C0AG1	107	109	92	84			0
C0AG1MS	117	116	101	93			0
C0AG1MSD	100	96	108	97			0

QC LIMITS

TCX = Tetrachloro-m-xylene

(30-150)

DCB = Decachlorobiphenyl

(30-150)

FORM 3A-OR  
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030  
 Lab Code : CHM Case No. : 47768 MA No. : \_\_\_\_\_ SDG No. : C0AD9  
 Analytical Method : ARO Level : \_\_\_\_\_  
 Matrix Soil  
 EPA Sample No.(Matrix Spike/Matrix Spike Duplicate) : C0AG1  
 Instrument ID : ECD\_R GC Column ZB-MR1 ID : 0.32 (mm)  
 Concentration Units (ug/L,mg/L ug/kg) : ug/kg

ANALYTE	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS %R #	QC Limits %R
AR1016	160	0.0	230	144 *	29 - 135
AR1260	160	0.0	180	113	29 - 135

ANALYTE	SPIKE AADDED	MSD CONCENTRATION	MSD %R #	RPD	QC Limits	
					RPD	%R
AR1016	160	200	127	13	15	29 - 135
AR1260	160	170	108	5	20	29 - 135

FORM 3A-OR  
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030  
 Lab Code : CHM Case No. : 47768 MA No. : \_\_\_\_\_ SDG No. : C0AD9  
 Analytical Method : ARO Level : \_\_\_\_\_  
 Matrix Soil  
 EPA Sample No.(Matrix Spike/Matrix Spike Duplicate) : C0AG1  
 Instrument ID : ECD\_R GC Column ZB-MR2 ID : 0.32 (mm)  
 Concentration Units (ug/L,mg/L ug/kg) : ug/kg

ANALYTE	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS %R #	QC Limits %R
AR1016	160	0.0	190	123	29 - 135
AR1260	160	0.0	160	104	29 - 135

ANALYTE	SPIKE AADDED	MSD CONCENTRATION	MSD %R #	RPD	QC Limits	
					RPD	%R
AR1016	160	170	106	15	15	29 - 135
AR1260	160	160	100	4	20	29 - 135

FORM 3B-OR  
 LABORATORY CONTROL  
 SAMPLE RECOVERY

EPA SAMPLE NO.

ALCS61

Lab Name : Chemtech Consulting Group Contract : EPW14030  
 Lab Code : CHM Case No 47768 MA No. : SDG No.: C0AD9  
 Analytical Method: ARO  
 Matrix : Soil Lab Sample ID : PB111761BS  
 LCS Lot No. : PP13959 Date Extracted : 08/03/2018  
 Concentration Units (ug/L,mg/L,ug/kg) : ug/kg

Instrument ID ( 1 ) : ECD\_R GC Column ( 1 ) : ZB-MR1 ID : 0.32 (mm)  
 Date Analyzed ( 1 ) : 08/08/2018

ANALYTE	AMOUNT ADDED	AMOUNT RECOVERED	% R	QC LIMITS
AR1016	33.33	37	110	50-150
AR1260	33.33	36	107	50-150

Instrument ID ( 2 ) : ECD\_R GC Column ( 2 ) : ZB-MR2 ID : 0.32 (mm)  
 Date Analyzed ( 2 ) : 08/08/2018

ANALYTE	AMOUNT ADDED	AMOUNT RECOVERED	% R	QC LIMITS
AR1016	33.33	34	100	50-150
AR1260	33.33	34	102	50-150

Lab Name : Chemtech Consulting Group  
 Lab Code: CHM Case No.: 47768  
 Analytical Method: ARO  
 Matrix : Soil  
 Instrument ID: ECD\_R  
 Extraction Type: SOXH  
 GC Column (1) : ZB-MR1 ID : 0.32 (mm)  
 GC Column (2) : ZB-MR2 ID : 0.32 (mm)  
 Heated Purge : (Y/N) \_\_\_\_\_ Cleanup(Y/N) : Y

Contract : EPW14030  
 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Level : \_\_\_\_\_  
 Lab Sample ID : PB111761BL  
 Lab File ID : PR031332.D  
 Date Extracted : 08/03/2018  
 Date Analyzed : 08/08/2018  
 Time Analyzed : 17:29  
 Cleanup Types : Acid

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE / TIME ANALYZED
ALCS61	PB111761BS	PR031333.D	08/08/2018 17:43
C0AD8	J4301-01	PR031334.D	08/08/2018 17:58
C0AD9	J4301-02	PR031335.D	08/08/2018 18:12
C0AE3	J4301-04	PR031336.D	08/08/2018 18:27
C0AE4	J4301-05	PR031337.D	08/08/2018 18:41
C0AE5	J4301-06	PR031338.D	08/08/2018 18:56
C0AE6	J4301-07	PR031339.D	08/08/2018 19:10
C0AE7	J4301-08	PR031340.D	08/08/2018 19:25
C0AE8	J4301-09	PR031341.D	08/08/2018 19:39
C0AE9	J4301-10	PR031342.D	08/08/2018 19:54
C0AF0	J4301-11	PR031343.D	08/08/2018 20:08
C0AF1	J4301-12	PR031344.D	08/08/2018 20:23
C0AF1DL	J4301-12DL	PR031345.D	08/08/2018 20:37
C0AF2	J4301-13	PR031346.D	08/08/2018 20:51
C0AF3	J4301-14	PR031347.D	08/08/2018 21:06
C0AF4	J4301-15	PR031348.D	08/08/2018 21:20
C0AG0	J4301-19	PR031349.D	08/08/2018 21:35
C0AG1	J4301-20	PR031355.D	08/08/2018 23:02
C0AG1MS	J4301-21MS	PR031356.D	08/08/2018 23:16
C0AG1MSD	J4301-22MSD	PR031357.D	08/08/2018 23:31
C0AF5	J4301-16	PR031386.D	08/09/2018 07:42
C0AF5DL	J4301-16DL	PR031388.D	08/09/2018 09:07

FORM 10B-OR  
IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

ALCS61

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No. 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: ARO Lab Sample ID: PB111761BS  
 Instrument ID (1): ECD\_R Date(s) Analyzed : 08/08/2018  
 Instrument ID (2): ECD\_R  
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)  
 Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\mu\text{g/kg}$ ): ug/Kg

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor 1016	1	5 25	5 18	5 32	34 3867	37	9 20
COLUMN 1	2	5 45	5 38	5 52	33 5633		
	3	5 71	5 64	5 78	42 1367		
	4	5 80	5 73	5 87	36 1267		
	5	6 19	6 12	6 26	36 6067		
	1	4 34	4 26	4 40	33 2800		
COLUMN 2	2	4 74	4 67	4 81	30 4100		
	3	4 76	4 68	4 82	37 2467		
	4	4 81	4 74	4 88	33 1933		
	5	5 18	5 11	5 25	33 2500		
Aroclor-1260	1	7.31	7.24	7.38	36.2333	36	5.70
COLUMN 1	2	7.56	7.50	7.64	35.9067		
	3	7.85	7.78	7.92	34.3800		
	4	8.15	8.09	8.23	38.3467		
	5	8.48	8.41	8.55	34.2800		
COLUMN 2	1	6.18	6.11	6.25	33.3600		
	2	6.37	6.30	6.44	32.7667		
	3	6.52	6.45	6.59	35.0467		
	4	6.98	6.91	7.05	32.6067		
	5	7.22	7.15	7.29	35.7067		

IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

C0AE4

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No. 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: ARO Lab Sample ID: J4301-05  
 Instrument ID (1): ECD\_R Date(s) Analyzed : 08/08/2018  
 Instrument ID (2): ECD\_R  
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)  
 Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\mu\text{g/kg}$ ): ug/Kg

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	6.78	6.71	6.85	16.3783	19	10.10
COLUMN 1	2	7.06	6.99	7.13	15.9895		
	3	7.15	7.08	7.22	17.4268		
	4	7.43	7.36	7.50	19.4976		
	5	7.70	7.63	7.77	24.0891		
	1	5.89	5.82	5.96	22.3941		
COLUMN 2	2	5.97	5.90	6.04	12.9620		
	3	6.28	6.21	6.35	22.7217		
	4	6.59	6.52	6.66	23.8445		
	5	6.69	6.62	6.76	20.9305		

IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

C0AE6

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No. 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: ARO Lab Sample ID: J4301-07  
 Instrument ID (1): ECD\_R Date(s) Analyzed : 08/08/2018  
 Instrument ID (2): ECD\_R  
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)  
 Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\mu\text{g/kg}$ ): ug/Kg

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	6.78	6.71	6.85	6.7549	9.2	10.20
COLUMN 1	2	7.06	6.99	7.13	9.4226		
	3	7.15	7.08	7.22	9.0344		
	4	7.43	7.36	7.50	8.8289		
	5	7.70	7.63	7.77	12.0827		
	1	5.88	5.82	5.96	7.0631		
COLUMN 2	2	5.97	5.90	6.04	5.7426		
	3	6.28	6.21	6.35	7.9460		
	4	6.59	6.52	6.66	12.5546		
	5	6.69	6.62	6.76	8.5587		

IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

C0AE7

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No. 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: ARO Lab Sample ID: J4301-08  
 Instrument ID (1): ECD\_R Date(s) Analyzed : 08/08/2018  
 Instrument ID (2): ECD\_R  
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)  
 Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\mu\text{g/kg}$ ): ug/Kg

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	6.78	6.71	6.85	14.2096	17	9.60
COLUMN 1	2	7.06	6.99	7.13	17.0811		
	3	7.15	7.08	7.22	17.0515		
	4	7.43	7.36	7.50	17.9939		
	5	7.70	7.63	7.77	20.4958		
	1	5.89	5.82	5.96	21.3790		
COLUMN 2	2	5.97	5.90	6.04	14.5718		
	3	6.28	6.21	6.35	17.1845		
	4	6.59	6.52	6.66	22.2919		
	5	6.69	6.62	6.76	19.7530		

IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

C0AE9

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No. 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: ARO Lab Sample ID: J4301-10  
 Instrument ID (1): ECD\_R Date(s) Analyzed : 08/08/2018  
 Instrument ID (2): ECD\_R  
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)  
 Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\mu\text{g/kg}$ ): ug/Kg

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D	
			FROM	TO	PEAK	MEAN		
Aroclor-1254	1	6.78	6.71	6.85	4.1413	6.6	0.80	
COLUMN 1	2	7.06	6.99	7.13	6.8898			
	3	7.15	7.08	7.22	7.0980			
	4	7.43	7.36	7.50	6.2882			
	5	7.70	7.63	7.77	8.6666			
COLUMN 2	1	5.89	5.82	5.96	8.9997	6.7		
	2	5.97	5.90	6.04	4.4050			
	3	6.28	6.21	6.35	5.7006			
	4	6.59	6.52	6.66	8.2733			
	5	6.69	6.62	6.76	5.9597			

IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

C0AF1

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No. 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: ARO Lab Sample ID: J4301-12  
 Instrument ID (1): ECD\_R Date(s) Analyzed : 08/08/2018  
 Instrument ID (2): ECD\_R  
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)  
 Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\mu\text{g/kg}$ ): ug/Kg

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	6.78	6.71	6.85	2216.4099	2300	0.90
COLUMN 1	2	7.06	6.99	7.13	2190.8899		
	3	7.15	7.08	7.22	2255.7800		
	4	7.43	7.36	7.50	2387.2100		
	5	7.70	7.63	7.77	2467.9800		
	1	5.88	5.82	5.96	1999.9100		
COLUMN 2	2	5.97	5.90	6.04	2584.1299		
	3	6.28	6.21	6.35	2227.3501		
	4	6.59	6.52	6.66	2374.9399		
	5	6.69	6.62	6.76	2431.8799		

IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

C0AF1DL

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No. 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: ARO Lab Sample ID: J4301-12DL  
 Instrument ID (1): ECD\_R Date(s) Analyzed : 08/08/2018  
 Instrument ID (2): ECD\_R  
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)  
 Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\mu\text{g/kg}$ ): ug/Kg

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	6.78	6.71	6.85	2342.2800	2500	0.60
COLUMN 1	2	7.06	6.99	7.13	2284.8601		
	3	7.15	7.08	7.22	2370.1101		
	4	7.43	7.36	7.50	2537.1001		
	5	7.70	7.63	7.77	2767.3601		
	1	5.88	5.82	5.96	2143.4700		
COLUMN 2	2	5.97	5.90	6.04	2698.8701		
	3	6.28	6.21	6.35	2392.1299		
	4	6.59	6.52	6.66	2473.9299		
	5	6.69	6.62	6.76	2514.9900		

IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

C0AF2

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No. 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: ARO Lab Sample ID: J4301-13  
 Instrument ID (1): ECD\_R Date(s) Analyzed : 08/08/2018  
 Instrument ID (2): ECD\_R  
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)  
 Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\mu\text{g/kg}$ ): ug/Kg

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	6.78	6.71	6.85	40.8727	44	9.40
COLUMN 1	2	7.06	6.99	7.13	42.6522		
	3	7.15	7.08	7.22	40.5407		
	4	7.43	7.36	7.50	40.7876		
	5	7.70	7.63	7.77	53.0651		
	1	5.89	5.82	5.96	41.0983		
COLUMN 2	2	5.97	5.90	6.04	38.2971		
	3	6.28	6.21	6.35	35.2448		
	4	6.59	6.52	6.66	43.9634		
	5	6.69	6.62	6.76	40.6769		

IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

C0AF4

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No. 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: ARO Lab Sample ID: J4301-15  
 Instrument ID (1): ECD\_R Date(s) Analyzed : 08/08/2018  
 Instrument ID (2): ECD\_R  
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)  
 Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\mu\text{g/kg}$ ): ug/Kg

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	6.78	6.71	6.85	24.0703	28	6.60
COLUMN 1	2	7.06	6.99	7.13	25.5308		
	3	7.15	7.08	7.22	28.6485		
	4	7.43	7.36	7.50	29.1901		
	5	7.70	7.63	7.77	31.7701		
	1	5.89	5.82	5.96	30.1892		
COLUMN 2	2	5.97	5.90	6.04	25.6231		
	3	6.28	6.21	6.35	27.6373		
	4	6.59	6.52	6.66	35.7945		
	5	6.69	6.62	6.76	29.1179		

IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

C0AF5

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No. 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: ARO Lab Sample ID: J4301-16  
 Instrument ID (1): ECD\_R Date(s) Analyzed : 08/09/2018  
 Instrument ID (2): ECD\_R  
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)  
 Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\mu\text{g/kg}$ ): ug/Kg

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	6.79	6.71	6.85	88965504.0000	99000000	19.80
COLUMN 1	2	7.06	6.99	7.13	117024000.0000		
	3	7.15	7.08	7.22	79947200.0000		
	4	7.44	7.36	7.50	88260496.0000		
	5	7.70	7.63	7.77	121408000.0000		
	1	5.89	5.82	5.96	106905000.0000		
COLUMN 2	2	5.95	5.90	6.04	72821600.0000		
	3	6.27	6.21	6.35	68877400.0000		
	4	6.59	6.52	6.66	81854400.0000		
	5	6.71	6.62	6.76	83269600.0000		

IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

C0AF5DL

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No. 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: ARO Lab Sample ID: J4301-16DL  
 Instrument ID (1): ECD\_R Date(s) Analyzed : 08/09/2018  
 Instrument ID (2): ECD\_R  
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)  
 Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\mu\text{g/kg}$ ): ug/Kg

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	6.80	6.71	6.85	149435008.0000	150000000	7.30
COLUMN 1	2	7.08	6.99	7.13	153596992.0000		
	3	7.16	7.08	7.22	158672000.0000		
	4	7.45	7.36	7.50	154406000.0000		
	5	7.72	7.63	7.77	153800992.0000		
	1	5.88	5.82	5.96	144131008.0000		
COLUMN 2	2	5.97	5.90	6.04	151963008.0000		
	3	6.28	6.21	6.35	139462000.0000		
	4	6.59	6.52	6.66	132544000.0000		
	5	6.69	6.62	6.76	149147008.0000		

IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

C0AG0

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No. 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: ARO Lab Sample ID: J4301-19  
 Instrument ID (1): ECD\_R Date(s) Analyzed : 08/08/2018  
 Instrument ID (2): ECD\_R  
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)  
 Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\mu\text{g/kg}$ ): ug/Kg

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	6.78	6.71	6.85	600.0100	630	0.80
COLUMN 1	2	7.06	6.99	7.13	622.0240		
	3	7.15	7.08	7.22	644.7810		
	4	7.43	7.36	7.50	633.4920		
	5	7.70	7.63	7.77	648.3600		
COLUMN 2	1	5.88	5.82	5.96	612.8640		
	2	5.97	5.90	6.04	645.3170		
	3	6.28	6.21	6.35	617.2660		
	4	6.59	6.52	6.66	633.7480		
	5	6.69	6.62	6.76	613.8010		

IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

C0AG1

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No. 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: ARO Lab Sample ID: J4301-20  
 Instrument ID (1): ECD\_R Date(s) Analyzed : 08/08/2018  
 Instrument ID (2): ECD\_R  
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)  
 Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\mu\text{g/kg}$ ): ug/Kg

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor-1254	1	6.78	6.71	6.85	51.0635	53	6.30
COLUMN 1	2	7.06	6.99	7.13	50.9571		
	3	7.15	7.08	7.22	53.8025		
	4	7.43	7.36	7.50	53.1522		
	5	7.70	7.63	7.77	53.4202		
	1	5.88	5.82	5.96	54.6774		
COLUMN 2	2	5.97	5.90	6.04	48.9511		
	3	6.28	6.21	6.35	44.4860		
	4	6.59	6.52	6.66	52.9079		
	5	6.69	6.62	6.76	45.7550		

FORM 10B-OR  
IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

C0AG1MS

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No. 47768 MA No.: \_\_\_\_\_ SDG No.: C0AD9  
 Analytical Method: ARO Lab Sample ID: J4301-21MS  
 Instrument ID (1): ECD\_R Date(s) Analyzed : 08/08/2018  
 Instrument ID (2): ECD\_R  
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)  
 Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\mu\text{g/kg}$ ): ug/Kg

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor 1016	COLUMN 1	1	5 25	5 18	5 32	207 2610	230
		2	5 44	5 38	5 52	206 1420	
		3	5 73	5 64	5 78	311 8270	
		4	5 80	5 73	5 87	207 8320	
		5	6 19	6 12	6 26	197 9170	
	COLUMN 2	1	4 33	4 26	4 40	204 6560	190
		2	4 74	4 67	4 81	181 9440	
		3	4 75	4 68	4 82	210 2400	
		4	4 81	4 74	4 88	195 8040	
		5	5 17	5 11	5 25	178 8700	
Aroclor-1254	COLUMN 1	1	6.78	6.71	6.85	58.1060	51
		2	7.06	6.99	7.13	20.7139	
		3	7.14	7.08	7.22	30.8186	
		4	7.43	7.36	7.50	26.1288	
		5	7.69	7.63	7.77	118.9470	
	COLUMN 2	1	5.88	5.82	5.96	14.3965	51
		2	5.97	5.90	6.04	21.3641	
		3	6.28	6.21	6.35	11.5786	
		4	6.59	6.52	6.66	32.8482	
		5	6.69	6.62	6.76	174.5940	
Aroclor-1260	COLUMN 1	1	7.31	7.24	7.38	184.2650	180
		2	7.56	7.50	7.64	182.6140	
		3	7.85	7.78	7.92	184.7810	
		4	8.15	8.09	8.23	169.3560	
		5	8.47	8.41	8.55	165.5180	
	COLUMN 2	1	6.18	6.11	6.25	163.0030	160
		2	6.37	6.30	6.44	170.8580	
		3	6.52	6.45	6.59	173.4910	
		4	6.98	6.91	7.05	155.9330	
		5	7.22	7.15	7.29	159.5870	

FORM 10B-OR  
IDENTIFICATION SUMMARY  
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

C0AG1MSD

Lab Name: Chemtech Consulting Group Contract: EPW14030  
 Lab Code: CHM Case No. 47768 MA No.: SDG No.: C0AD9  
 Analytical Method: ARO Lab Sample ID: J4301-22MSD  
 Instrument ID (1): ECD\_R Date(s) Analyzed: 08/08/2018  
 Instrument ID (2): ECD\_R  
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)  
 Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\mu\text{g/kg}$ ):  $\mu\text{g/Kg}$

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION		%D
			FROM	TO	PEAK	MEAN	
Aroclor 1016	COLUMN 1	1	5 25	5 18	5 32	188 1710	200
		2	5 45	5 38	5 52	179 2010	
		3	5 73	5 64	5 78	272 6850	
		4	5 80	5 73	5 87	182 3420	
		5	6 19	6 12	6 26	177 3570	
	COLUMN 2	1	4 34	4 26	4 40	174 2510	170
		2	4 74	4 67	4 81	155 2910	
		3	4 75	4 68	4 82	181 4280	
		4	4 81	4 74	4 88	169 9280	
		5	5 18	5 11	5 25	156 1150	
Aroclor-1254	COLUMN 1	1	6.78	6.71	6.85	53.4911	47
		2	7.06	6.99	7.13	19.6380	
		3	7.15	7.08	7.22	28.6116	
		4	7.43	7.36	7.50	24.5090	
		5	7.69	7.63	7.77	110.2650	
	COLUMN 2	1	5.89	5.82	5.96	11.6023	46
		2	5.97	5.90	6.04	15.0901	
		3	6.28	6.21	6.35	13.3009	
		4	6.59	6.52	6.66	31.3388	
		5	6.69	6.62	6.76	156.9740	
Aroclor-1260	COLUMN 1	1	7.31	7.24	7.38	169.2970	170
		2	7.56	7.50	7.64	171.1180	
		3	7.85	7.78	7.92	182.2400	
		4	8.15	8.09	8.23	167.3820	
		5	8.48	8.41	8.55	159.2360	
	COLUMN 2	1	6.18	6.11	6.25	154.1480	160
		2	6.37	6.30	6.44	157.3840	
		3	6.52	6.45	6.59	162.4280	
		4	6.98	6.91	7.05	156.5010	
		5	7.22	7.15	7.29	161.0450	

## PERCENT SOLID

**Analyst Name:** [Redacted] Non-responsive based  
**Date:** 8/6/2018

**OVENTEMP IN Celsius (°C):** 109  
**Time IN:** 17:00  
**In Date:** 08/03/2018  
**Weight Check 1.0g:** 1.00 g  
**Weight Check 10g:** 10.00 g  
**OvenID:** M Oven-1

**OVENTEMP OUT Celsius (°C):** 104  
**Time OUT:** 08:22  
**Out Date:** 08/04/2018  
**Weight Check 1.0g:** 1.00 g  
**Weight Check 10g:** 10.00 g  
**BalanceID:** M SC-1

QC: LB97099

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Dish#</u>	<u>Dish Wt(g) (A)</u>	<u>Dish + Sample Wt(g) (B)</u>	<u>Dish + Dry Sample Wt(g) (C)</u>	<u>% Solid</u>
J4301-01	C0AD8	1	1.13	9.59	8.04	81.7
J4301-02	C0AD9	2	1.13	9.58	7.98	81.1
J4301-03	C0AE1	3	1.12	9.87	9.18	92.1
J4301-04	C0AE3	4	1.14	9.87	7.33	70.9
J4301-05	C0AE4	5	1.15	9.59	7.59	76.3
J4301-06	C0AE5	6	1.12	9.91	8.73	86.6
J4301-07	C0AE6	7	1.13	9.61	8.53	87.3
J4301-08	C0AE7	8	1.12	9.85	8.94	89.6
J4301-09	C0AE8	9	1.17	9.98	9.35	92.8
J4301-10	C0AE9	10	1.14	9.83	7.38	71.8
J4301-11	C0AF0	11	1.15	9.98	8.86	87.3
J4301-12	C0AF1	12	1.17	9.66	7.79	78
J4301-13	C0AF2	13	1.18	9.63	7.80	78.3
J4301-14	C0AF3	14	1.11	9.88	8.52	84.5
J4301-15	C0AF4	15	1.18	9.94	8.43	82.8
J4301-16	C0AF5	16	1.14	9.53	7.83	79.7
J4301-17	C0AF8	17	1.16	9.88	7.43	71.9
J4301-18	C0AF9	18	1.14	9.98	7.45	71.4
J4301-19	C0AG0	19	1.13	9.63	7.53	75.3
J4301-20	C0AG1	20	1.18	9.78	8.43	84.3
J4301-21	C0AG1MS	21	1.18	9.78	8.43	84.3
J4301-22	C0AG1MSD	22	1.18	9.78	8.43	84.3
J4301-23	VHBLK01	23	1.00	2.00	2.00	100

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

## **Appendix C**

### **EXES Report**

*Scanning the Sky*

# Data Validation Report

Page 1

## Data Review Results

Wed, 22

Aug

2018

15:40:27

Project Name: SHILO CHURCH ROAD SITE Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Submission Group Id: 30413089

Organization: EPA Region 3

SOW: SOM02.4

### HoldingTimes\_Preservation

NONE FOUND ✓

Collected = 7/31/18 & 8/1/18.

VOA : Analyzed = 8/4/18 & 8/7/18 (within 14 days), ✓

SVOA : Extracted = 8/6/18 (within 14 day), ✓

Analyzed = 8/4/18 & 8/10/18,

Specimens : Extracted = 8/3/18 (within 1 year), ✓

Analyzed = 8/8/18 & 8/9/18.

# Data Validation Report

Page 2

## Data Review Results

Wed, 22

Aug

2018

15:40:27

Project Name: SHILO CHURCH ROAD SITE Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Submission Group Id: 30413089

Organization: EPA Region 3

SOW: SOM02.4

---

TUNE

---

NONE FOUND



# Data Validation Report

## Data Review Results

Page 3

Wed, 22

Aug

2018

15:40:27

Project Name: SHILO CHURCH ROAD SITE Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Submission Group Id: 30413089

Organization: EPA Region 3

SOW: SOM02.4

### Initial Calibration

#### Method - Volatile Organics

Test Name: EXES-988

Defect Message: The following samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detects are not qualified. Nondetects are not qualified. Use professional judgement to qualify data.

Associated Samples: C0AF8, C0AF9, C0AG0, C0AG1, VBLK96, VBLK97, VHBLK01

Defective Analyte	Defective Samples/Analyses
trans-1,3-Dichloropropene-d4	VSTD00590, VSTD02591, VSTD05092, VSTD10093, VSTD2.594, VSTD2.594

#### Method - Semivolatiles

Test Name: EXES-793

Defect Message: The following samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detects are qualified as estimated J. Use professional judgment to qualify nondetects.

Associated Samples: C0AD8, C0AD9, C0AE1, C0AE3, C0AE4, C0AE5, C0AE6, C0AE7, C0AE8, C0AE9, C0AF0, C0AF1, C0AF2, C0AF3, C0AF4, C0AF8, C0AF9, C0AG0, C0AG1, SBLK84

Defective Analyte	Defective Samples/Analyses
Fluoranthene (20.2%)	SSTD00501

Results = non-detects; not qualified.

# Data Validation Report

## Data Review Results

Page 4

Wed, 22

Aug

2018

15:40:27

Project Name: SHILO CHURCH ROAD SITE Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Submission Group Id: 30413089

Organization: EPA Region 3

SOW: SOM02.4

### Initial Calibration Verification

#### Method - Volatile Organics

Test Name: EXES-68

Defect Message: The following samples are associated with an ICV with DMC RRF exceeding criteria. Detects are not qualified. Nondetects are not qualified. Use professional judgment to qualify data.

Associated Samples: C0AF8, C0AF9, C0AG0, C0AG1, VBLK96, VBLK97, VHBLK01

Defective Analyte	Defective Samples/Analyses
trans-1,3-Dichloropropene-d4	VICV95

# Data Validation Report

## Data Review Results

Page 5

Wed, 22  
Aug  
2018  
15:40:27

Project Name: SHILO CHURCH ROAD SITE Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Submission Group Id: 30413089

Organization: EPA Region 3

SOW: SOM02.4

### Continuing Calibration Verification

#### Method - Volatile Organics

Test Name: EXES-614

Defect Message: The following samples are associated with an opening or closing CCV with DMC RRF exceeding criteria. Detects are not qualified. Nondetects are not qualified. Use professional judgment to qualify data.

Associated Samples: C0AF8, C0AF9, C0AG0, C0AG1, VBLK96, VBLK97, VHBLK01

Defective Analyte	Defective Samples/Analyses
trans-1,3-Dichloropropene-d4	VSTD02581, VSTD02582, VSTD02596, VSTD02597, VSTD02598, VSTD02599

# Data Validation Report

Page 6

## Data Review Results

Wed, 22

Aug

2018

15:40:27

Project Name: SHILO CHURCH ROAD SITE Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Submission Group Id: 30413089

Organization: EPA Region 3

SOW: SOM02.4

### Blanks

#### Method - Volatile Organics

**Test Name:** EXES-1122

**Defect Message:** The following samples have analyte results reported greater than or equal to CRQLs and greater than or equal to 2x method blank results. The associated method blank results are greater than or equal to CRQLs. Detects are not qualified. Use professional judgment to qualify data.

**Associated Samples:** C0AF8, C0AF9

Defective Analyte	Defective Samples/Analyses
Methylene chloride	C0AF8[Reinjection-01], C0AF9[Reinjection-01]

**Test Name:** EXES-1166

**Defect Message:** The following samples have analyte results reported greater than or equal to CRQLs and greater than or equal to the storage blank results. The associated storage blank results are greater than or equal to CRQLs. Detects are not qualified. Use professional judgment to qualify data.

**Associated Samples:** C0AF8, C0AF9

Defective Analyte	Defective Samples/Analyses
Methylene chloride	C0AF8[Reinjection-01], C0AF9[Reinjection-01]

# Data Validation Report

## Data Review Results

Page 1

Wed, 22  
Aug  
2018  
15:40:27

Project Name: SHILO CHURCH ROAD SITE Project  
Submission Group Id: 30413089

GroupID: 47768/EPW14030/C0AD9  
Organization: EPA Region 3

Lab Name: Chemtech Consulting Group  
SOW: SOM02.4

### DMC\_Surrogate

#### Method - Aroclors

Test Name: EXES-971

Defect Message: The following samples have surrogate percent recoveries greater than the primary maximum criteria but are less than or equal to the expanded maximum criteria. Detects are qualified as estimated J-. Nondetects are not qualified. ✓

Associated Samples: C0AF1

Defective Analyte	Defective Samples/Analyses
Decachlorobiphenyl	C0AF1[Dilution-01], C0AF1

Test Name: EXES-983

Defect Message: The following diluted samples have surrogate percent recoveries less than the expanded minimum criteria. Detects are not qualified. Nondetects are not qualified. Use professional judgment to qualify data.

Associated Samples: C0AF5

Defective Analyte	Defective Samples/Analyses
Tetrachloro-m-xylene	C0AF5[Dilution-01], C0AF5
Decachlorobiphenyl	C0AF5[Dilution-01], C0AF5

#### Method - Volatile Organics

Test Name: EXES-1350

Defect Message: The following samples have DMC/surrogate percent recoveries less than the primary minimum criteria but greater than or equal to the expanded minimum criteria. Detects are qualified as estimated J-. Nondetects are qualified as estimated UJ.

Associated Samples: C0AF9

Defective Analyte	Defective Samples/Analyses

# Data Validation Report

## Data Review Results

Page 8

Wed, 22

Aug

2018

15:40:27

Project Name: SHILO CHURCH ROAD SITE Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Submission Group Id: 30413089

Organization: EPA Region 3

SOW: SOM02.4

Test Name: EXES-1350

Defect Message: The following samples have DMC/surrogate percent recoveries less than the primary minimum criteria but greater than or equal to the expanded minimum criteria. Detects are qualified as estimated J-. Nondetects are qualified as estimated UJ.

Associated Samples: C0AF9

Defective Analyte	Defective Samples/Analyses
2-Hexanone-d5	C0AF9 (not reported)

Test Name: EXES-982

Defect Message: The following samples have DMC/surrogate percent recoveries greater than the primary maximum criteria. Detects are qualified as estimated J+. Use professional judgment to qualify nondetects.

Associated Samples: C0AF8, C0AF9

Defective Analyte	Defective Samples/Analyses
1,2-Dichloropropane-d6	C0AF8, C0AF9 (not reported)

method - Semivolatiles

(1) 4-Chloroaniline-d4 > 10% : No qualification because QC limit is advisory.

(2) 1,4-Dioxane-d8 < QC limit (40-110%) : No qualification because Region 3 is using 15-120% as QC limit.

# Data Validation Report

## Data Review Results

Page 9

Wed, 22

Aug

2018

15:40:27

Project Name: SHILO CHURCH ROAD SITE Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Submission Group Id: 30413089

Organization: EPA Region 3

SOW: SOM02.4

### MatrixSpikes

#### Method - Aroclors

**Test Name:** EXES-975**Defect Message:** The following matrix/matrix spike duplicate samples have percent recoveries greater than the primary maximum criteria. Detects are qualified as estimated J. Nondetects are not qualified.**Associated Samples:** C0AG1 /

Defective Analyte	Defective Samples/Analyses
Aroclor-1016	C0AG1MS

# Data Validation Report

## Data Review Results

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Wed, 22

Aug

2018

15:40:27

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Project Name: SHILO CHURCH ROAD SITE Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Submission Group Id: 30413089

Organization: EPA Region 3

SOW: SOM02.4

---

### LaboratoryControlSample

---

NONE FOUND ✓

# Data Validation Report

## Data Review Results

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Wed, 22

Aug

2018

15:40:27

Project Name: SHILO CHURCH ROAD SITE Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Submission Group Id: 30413089

Organization: EPA Region 3

SOW: SOM02.4

### Cleanup

**NONE FOUND**

# Data Validation Report

## Data Review Results

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Wed, 22

Aug

2018

15:40:27

Project Name: SHILO CHURCH ROAD SITE Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Submission Group Id: 30413089

Organization: EPA Region 3

SOW: SOM02.4

### Internal Standard

#### Method - Volatile Organics

Test Name: EXES-1523

Defect Message: The following samples have internal standard area response greater than or equal to expanded minimum criteria and less than primary minimum criteria. Detects are qualified as estimated J+, Nondetects are qualified as estimated UJ.

Associated Samples: C0AF8, C0AF9

Defective Analyte	Defective Samples/Analyses
1,4-Dichlorobenzene-d4	C0AF8, C0AF8[Reinjection-01], C0AF9[Reinjection-01], C0AF9

# Data Validation Report

## Data Review Results

Page 13

Wed, 22

Aug

2018

15:40:27

Project Name: SHILO CHURCH ROAD SITE Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Submission Group Id: 30413089

Organization: EPA Region 3

SOW: SOM02.4

### Target Analyte Quantitation

#### Method - Aroclors

Test Name: EXES-790

Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

Associated Samples: C0AE4, C0AE6, C0AE7, C0AE9, C0AF2, C0AF4

Defective Analyte	Defective Samples/Analyses
Aroclor-1254	C0AE4, C0AE6, C0AE7, C0AE9, C0AF2, C0AF4

#### Method - Volatile Organics

Test Name: EXES-790

Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

Associated Samples: C0AG0

Defective Analyte	Defective Samples/Analyses
Toluene	C0AG0

#### Method - Semivolatiles

# Data Validation Report

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## Data Review Results

Wed, 22

Aug

2018

15:40:27

Project Name: SHILO CHURCH ROAD SITE Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Submission Group Id: 30413089

Organization: EPA Region 3

SOW: SOM02.4

Test Name: EXES-790

Defect Message: The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

Associated Samples: C0AD9, C0AE1, C0AE6, C0AE8, C0AF0, C0AF1, C0AF2, C0AF3, C0AF4, C0AF9, C0AG1

Defective Analyte	Defective Samples/Analyses
Phenol	C0AD9, C0AE1, C0AE6, C0AE8, C0AF0, C0AF1, C0AF2, C0AF3, C0AF4, C0AF9, C0AG1
Bis(2-ethylhexyl)phthalate	C0AF1

# Data Validation Report

Page 15

## Data Review Results

Wed, 22

Aug

2018

15:40:27

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Project Name: SHILO CHURCH ROAD SITE Project

GroupID: 47768/EPW14030/C0AD9

Lab Name: Chemtech Consulting Group

Submission Group Id: 30413089

Organization: EPA Region 3

SOW: SOM02.4

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### PercentSolids

---

NONE FOUND

**Data Validation Report****Data Review Results**

Wed, 22

Aug

2018

15:40:27

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**Project Name:** SHILO CHURCH ROAD SITE Project**GroupID:** 47768/EPW14030/C0AD9**Lab Name:** Chemtech Consulting Group**Submission Group Id:** 30413089**Organization:** EPA Region 3**SOW:** SOM02.4

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**SampleAnalysis**

---

**NONE FOUND**

## **USEPA CLP COC (REGION COPY)**

DateShipped: 25-Jul-18

CarrierName: FedEx

AirbillNo: 7728 1311 7053

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 01

No: 3-07-25-18-110415-0013

Lab: Bonner Analytical Testing Company

## Lab Contact:

Lab Phone: 601-264-2854

Special Instructions:	<b>Shipment for Case Complete? N</b> <b>Samples Transferred From Chain of Custody #</b>
Analysis Key: ICP-MS=TAL Metals+Hg by ISM02.4 (ICP-MS), Dissolved Metals=Dissolved TAL Metals+Hg by ISM02.4 (ICP-MS), ICP-AES=TAL Metals+Hg by ISM02.4 ICP-AES	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## **USEPA CLP COC (REGION COPY)**

DateShipped: 25-Jul-18

CarrierName: FedEx

AirbillNo: 7722 1310 1385

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 02

No: 3-07-25-18-110521-0014

Lab: Chemtech Consulting Group

## Lab Contact:

Lab Phone: 908-789-8900

Special Instructions:	<b>Shipment for Case Complete? N</b> <b>Samples Transferred From Chain of Custody #</b>
Analysis Key: ICP-PCBs=CLP ICP-MPCBs by SOM02.4	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## **USEPA CLP COC (REGION COPY)**

DateShipped: 25-Jul-18

CarrierName: FedEx

AirbillNo: 7722 1310 1216

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 03

No: 3-07-25-18-111008-0015

Lab: Chemtech Consulting Group

## Lab Contact:

Lab Phone: 908-789-8900

Special Instructions:  Analysis Key: TAL SVOA=TAL SVOCs by SOM02.4	<b>Shipment for Case Complete? N</b> <b>Samples Transferred From Chain of Custody #</b>
--	--

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## USEPA CLP COC (REGION COPY)

DateShipped: 25-Jul-18

CarrierName: FedEx

AirbillNo: 7728 1338 6850

## CHAIN OF CUSTODY RECORD

Shiloh Church Road/VA

Case #: 47768

Cooler #: 04

No: 3-07-25-18-112131-0016

Lab: Chemtech Consulting Group

Lab Contact: [REDACTED] Non-responsive based on

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-0718-SW01-00	C0AB6	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1152 (HCl to pH < 2), 1153 (HCl to pH < 2), 1154 (HCl to pH < 2) (3)	SCR	07-23-2018 10:40	Field Sample
SCR-0718-SS03-0000-00	C0AB7	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21)	1155 (None), 1156 (None), 1157 (None), 1158 (None) (4)	SCR	07-25-2018 09:19	Field Sample
SCR-0718-SS01-0606-00	C0AB8	Sediment/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1162 (None) (1)	SCR	07-24-2018 16:30	Field Sample
SCR-0718-SS02-0000-00	C0AB9	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21)	1169 (None), 1170 (None), 1171 (None), 1172 (None) (4)	SCR	07-25-2018 09:05	Field Sample
SCR-0718-SW02-00	C0AC0	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1182 (HCl to pH < 2), 1183 (HCl to pH < 2), 1184 (HCl to pH < 2) (3)	SCR	07-23-2018 11:20	Field Sample
SCR-0718-SW03-00	C0AC1	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1191 (HCl to pH < 2), 1192 (HCl to pH < 2), 1193 (HCl to pH < 2) (3)	SCR	07-24-2018 16:30	Field Sample
SCR-0718-SW01-04	C0AC2	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1200 (HCl to pH < 2), 1201 (HCl to pH < 2), 1202 (HCl to pH < 2) (3)	SCR	07-23-2018 11:30	Trip Blank

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #

Analysis Key: Trace VOC=Trace VOCs by SOM02.4, Moisture=Moisture

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## USEPA CLP COC (REGION COPY)

DateShipped: 26-Jul-18

CarrierName: FedEx

AirbillNo: 7728 2420 3973

## CHAIN OF CUSTODY RECORD

Shiloh Church Road/VA

Case #: 47768

Cooler #: 05

No: 3-07-26-18-105937-0017

Lab: Bonner Analytical Testing Company

Lab Contact: [REDACTED] Non-responsive based on [REDACTED]

Lab Phone: 601-264-2854

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-072518-RW-013	MC0AC3	Water/ START Non-resp	Grab	ICP-MS(21)	1207 (HNO3 to pH < 2) (1)	L.P.B.M. HW	07-25-2018 15:05	Field Sample
SCR-072518-RW-013D	MC0AC4	Water/ START Non-resp	Grab	ICP-MS(21)	1215 (HNO3 to pH < 2) (1)	L.P.B.M. HW	07-25-2018 15:10	Field Sample
SCR-0718-SS04-0000-00	MC0AC7	Soil/ START Non-resp	Grab	ICP-AES(21)	1236 (None) (1)	SCR	07-25-2018 16:35	Field Sample
SCR-0718-SS05-0000-00	MC0AC8	Soil/ START Non-resp	Grab	ICP-AES(21)	1243 (None), 1275 (None) (2)	SCR	07-25-2018 16:55	Field Sample
SCR-0718-SS06-0000-00	MC0AC9	Soil/ START Non-resp	Grab	ICP-AES(21)	1250 (None) (1)	SCR	07-26-2018 08:40	Field Sample
SCR-0718-SS07-0000-00	MC0AD0	Soil/ START Non-resp	Grab	ICP-AES(21)	1257 (None) (1)	SCR	07-26-2018 09:05	Field Sample
SCR-0718-SS08-0000-00	MC0AD1	Soil/ START Non-resp	Grab	ICP-AES(21)	1264 (None) (1)	SCR	07-26-2018 09:26	Field Sample
SCR-0718-SS04-0000-01	MC0AD2	Soil/ START Non-resp	Grab	ICP-AES(21)	1271 (None) (1)	SCR	07-25-2018 16:40	Field Duplicate of [M]MC0AC7

Sample(s) to be used for Lab QC: SCR-0718-SS04-0000-01 Tag 1271	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #
Analysis Key: ICP-MS=TAL Metals+Hg by ISM02.4 (ICP-MS), ICP-AES=TAL Metals+Hg by ISM02.4 ICP-AES	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## **USEPA CLP COC (REGION COPY)**

DateShipped: 26-Jul-18

CarrierName: FedEx

AirbillNo: 7728 2439 7914

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 06

No: 3-07-26-18-112316-0018

Lab: Chemtech Consulting Group

## Lab Contact: Non-responsive based on

Lab Phone: 908-789-8900

Sample(s) to be used for Lab QC: SCR-0718-SS04-0000-01 Tag 1273	Shipment for Case Complete? N Samples Transferred From Chain of Custody #
---	--

Analysis Key: TAL SVOA=TAL SVOCs by SOM02.4, ICP-PCBs=CLP ICP-MPCBs by SOM02.4

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## **USEPA CLP COC (REGION COPY)**

DateShipped: 26-Jul-18

CarrierName: FedEx

AirbillNo: 7728 2439 8406

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 07

No: 3-07-26-18-112456-0019

Lab: Chemtech Consulting Group

## Lab Contact:

Lab Phone: 908-789-8900

Special Instructions:	<b>Shipment for Case Complete? N</b>
	<b>Samples Transferred From Chain of Custody #</b>

Analysis Key: ICB-PCBs, CLR-ICB-MPCBs by SOM02.4, TAL-SVOCs, TAL-SVOCGs by SOM02.4

Analysis Key: ICP-PCBs=CLP ICP-MPCBs by SOM02.4, TAL SVOA=TAL SVOCs by SOM02.4

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## USEPA CLP COC (REGION COPY)

DateShipped: 26-Jul-18

CarrierName: FedEx

AirbillNo: 7728 2439 8597

## CHAIN OF CUSTODY RECORD

Shiloh Church Road/VA

Case #: 47768

Cooler #: 08

No: 3-07-26-18-113338-0020

Lab: Chemtech Consulting Group

Lab Contact: [REDACTED] Non-responsive based on

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-072518-RW-013	C0AC3	Water/ START [REDACTED] Non-BSA	Grab	Trace VOC(21)	1210 (HCl to pH < 2), 1211 (HCl to pH < 2), 1212 (HCl to pH < 2) (3)	L.P.B.M. HW	07-25-2018 15:05	Field Sample
SCR-072518-RW-013D	C0AC4	Water/ START [REDACTED] Non-BSA	Grab	Trace VOC(21)	1218 (HCl to pH < 2), 1219 (HCl to pH < 2), 1220 (HCl to pH < 2) (3)	L.P.B.M. HW	07-25-2018 15:10	Field Sample
SCR-0718-RW13-04	C0AC6	Water/ START [REDACTED] Non-BSA	Grab	Trace VOC(21)	1229 (HCl to pH < 2), 1230 (HCl to pH < 2), 1231 (HCl to pH < 2) (3)	SCR	07-25-2018 15:30	Trip Blank
SCR-0718-SS04-0000-00	C0AC7	Soil/ START [REDACTED] Non-BSA	Grab	Trace VOC(21), Moisture(21)	1232 (None), 1233 (None), 1234 (None), 1235 (None) (4)	SCR	07-25-2018 16:35	Field Sample
SCR-0718-SS05-0000-00	C0AC8	Soil/ START [REDACTED] Non-BSA	Grab	Trace VOC(21), Moisture(21)	1239 (None), 1240 (None), 1241 (None), 1242 (None) (4)	SCR	07-25-2018 16:55	Field Sample
SCR-0718-SS06-0000-00	C0AC9	Soil/ START [REDACTED] Non-BSA	Grab	Trace VOC(21), Moisture(21)	1246 (None), 1247 (None), 1248 (None), 1249 (None) (4)	SCR	07-26-2018 08:40	Field Sample
SCR-0718-SS07-0000-00	C0AD0	Soil/ START [REDACTED] Non-BSA	Grab	Trace VOC(21), Moisture(21)	1253 (None), 1254 (None), 1255 (None), 1256 (None) (4)	SCR	07-26-2018 09:05	Field Sample
SCR-0718-SS08-0000-00	C0AD1	Soil/ START [REDACTED] Non-BSA	Grab	Trace VOC(21), Moisture(21)	1260 (None), 1261 (None), 1262 (None), 1263 (None) (4)	SCR	07-26-2018 09:26	Field Sample
SCR-0718-SS04-0000-01	C0AD2	Soil/ START [REDACTED] Non-BSA	Grab	Trace VOC(21), Moisture(21)	1267 (None), 1268 (None), 1269 (None), 1270 (None) (4)	SCR	07-25-2018 16:40	Field Duplicate of [M]C0AC7

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #
Analysis Key: Trace VOC=Trace VOCs by SOM02.4, Moisture=Moisture	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

USEPA CLP COC (REGION COPY)

DateShipped: 30-Jul-18

CarrierName: FedEx

AirbillNo: 7728 4382 9081

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 09

No: 3-07-29-18-234816-0021

Lab: Bonner Analytical Testing Company

## Lab Contact:

Lab Phone: 601-264-2854

Sample(s) to be used for Lab QC: SCR-0718-MW02-00 Tag 1287	<b>Shipment for Case Complete? N</b>
	<b>Samples Transferred From Chain of Custody #</b>

## Analysis Key: ICP-MS=TAL Metals+Hg by ISM02.4 (ICP-MS), Dissolved Metals=Dissolved TAL Metals+Hg by ISM02.4 (ICP-MS)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## **USEPA CLP COC (REGION COPY)**

DateShipped: 30-Jul-18

CarrierName: FedEx

AirbillNo: 7728 4384 0204

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 10

No: 3-07-29-18-235032-0022

Lab: Chemtech Consulting Group

## Lab Contact: Non-responsive based on

Lab Phone: 908-789-8900

Special Instructions:	<b>Shipment for Case Complete? N</b> <b>Samples Transferred From Chain of Custody #</b>
Analysis Key: ICB-PCBs, CLR-ICB-MRCPs by SOM02.4, TAL-SVOCs, TAL-SVOCs by SOM02.4	

Analysis Key: ICP-PCBs=CLP ICP-MPCBs by SOM02.4, TAL SVOA=TAL SVOCs by SOM02.4

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## **USEPA CLP COC (REGION COPY)**

DateShipped: 30-Jul-18

CarrierName: FedEx

AirbillNo: 7728 4383 9575

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 11

No: 3-07-30-18-000142-0023

Lab: Chemtech Consulting Group

## Lab Contact:

Lab Phone: 908-789-8900

Sample(s) to be used for Lab QC: SCR-0718-MW02-00 Tag 1285, SCR-0718-MW02-00 Tag 1286, SCR-0718-MW02-00 Tag 1321, SCR-0718-MW02-00 Tag 1322, SCR-0718-MW02-00 Tag 1325, SCR-0718-MW02-00 Tag 1326	<b>Shipment for Case Complete? N</b>
	<b>Samples Transferred From Chain of Custody #</b>

Analysis Key: ICP-PCBs=CLP ICP-MPCBs by SOM02.4, TAL SVOA=TAL SVOCs by SOM02.4

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## USEPA CLP COC (REGION COPY)

DateShipped: 30-Jul-18

CarrierName: FedEx

AirbillNo: 7728 4384 0215

## CHAIN OF CUSTODY RECORD

Shiloh Church Road/VA

Case #: 47768

Cooler #: 12

No: 3-07-30-18-000359-0024

Lab: Chemtech Consulting Group

Lab Contact: [REDACTED] Non-responsive based on

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-0718-MW01-00	C0AD3	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1281 (HCl to pH < 2), 1282 (HCl to pH < 2), 1283 (HCl to pH < 2) (3)	SCR Former Store	07-26-2018 14:35	Field Sample
SCR-0718-MW02-00	C0AD4	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1290 (HCl to pH < 2), 1291 (HCl to pH < 2), 1292 (HCl to pH < 2) (3)	SCR Former Store	07-26-2018 15:15	Field Sample
SCR-0718-MW03-00	C0AD5	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1299 (HCl to pH < 2), 1300 (HCl to pH < 2), 1301 (HCl to pH < 2) (3)	SCR Former Store	07-26-2018 14:15	Field Sample
SCR-0718-MW04-00	C0AD6	Water/ START [REDACTED] Non-resp	Grab	ICP-PCBs(21), TAL SVOA(21), Trace VOC(21)	1303 (None), 1304 (None), 1306 (None), 1307 (None), 1308 (HCl to pH < 2), 1309 (HCl to pH < 2), 1310 (HCl to pH < 2) (7)	SCR Former Store	07-26-2018 16:00	Field Sample
SCR-0718-MW01-04	C0AD7	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1317 (HCl to pH < 2), 1318 (HCl to pH < 2), 1319 (HCl to pH < 2) (3)	SCR Former Store	07-26-2018 14:05	Trip Blank

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #

Analysis Key: Trace VOC=Trace VOCs by SOM02.4, ICP-PCBs=CLP ICP-MPCBs by SOM02.4, TAL SVOA=TAL SVOCs by SOM02.4

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## USEPA CLP COC (REGION COPY)

DateShipped: 01-Aug-18

CarrierName: FedEx

AirbillNo: 7728 6981 6519

## CHAIN OF CUSTODY RECORD

Shiloh Church Road/VA

Case #: 47768

Cooler #: 13

No: 3-08-01-18-111903-0025

Lab: Chemtech Consulting Group

Lab Contact: [REDACTED] Non-responsive based on

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-0718-SB01-0102-00	C0AD8	Soil/ START Non-resp	Grab	Trace VOC(21), Moisture(21)	1327 (None), 1328 (None), 1329 (None), 1330 (None) (4)	SCR	07-31-2018 10:30	Field Sample
SCR-0718-SB01-1920-00	C0AD9	Soil/ START Non-resp	Grab	Trace VOC(21), Moisture(21)	1334 (None), 1335 (None), 1336 (None), 1337 (None) (4)	SCR	07-31-2018 10:50	Field Sample
SCR-0718-SB01-3035-00	C0AE0	Soil/ START Non-resp	Grab	Trace VOC(21)	1341 (None) (1)	SCR	07-31-2018 12:55	Field Sample
SCR-0718-SB01-5050-00	C0AE2	Soil/ START Non-resp	Grab	Trace VOC(21)	1349 (None) (1)	SCR	07-31-2018 13:20	Field Sample
SCR-0718-SB02-2425-00	C0AE3	Soil/ START Non-resp	Grab	Trace VOC(21), Moisture(21)	1350 (None), 1351 (None), 1352 (None), 1353 (None) (4)	SCR	07-31-2018 15:10	Field Sample
SCR-0718-SB02-0102-00	C0AE4	Soil/ START Non-resp	Grab	Trace VOC(21), Moisture(21)	1357 (None), 1358 (None), 1359 (None), 1360 (None) (4)	SCR	07-31-2018 14:45	Field Sample
SCR-0718-SB03-0102-00	C0AE5	Soil/ START Non-resp	Grab	Trace VOC(21), Moisture(21)	1364 (None), 1365 (None), 1366 (None), 1367 (None) (4)	SCR	07-31-2018 15:45	Field Sample
SCR-0718-SB03-1617-00	C0AE6	Soil/ START Non-resp	Grab	Trace VOC(21), Moisture(21)	1371 (None), 1372 (None), 1373 (None), 1374 (None) (4)	SCR	07-31-2018 16:05	Field Sample
SCR-0718-SB04-0102-00	C0AE7	Soil/ START Non-resp	Grab	Trace VOC(21), Moisture(21)	1378 (None), 1379 (None), 1380 (None), 1381 (None) (4)	SCR	08-01-2018 09:00	Field Sample
SCR-0718-SB04-1314-00	C0AE8	Soil/ START Non-resp	Grab	Trace VOC(21), Moisture(21)	1385 (None), 1386 (None), 1387 (None), 1388 (None) (4)	SCR	08-01-2018 09:10	Field Sample

Special Instructions: Note: 48-hour hold-time for VOCs expires at 10:30 on 8/2/18.	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #
Analysis Key: Trace VOC=Trace VOCs by SOM02.4, Moisture=Moisture	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## **USEPA CLP COC (REGION COPY)**

DateShipped: 01-Aug-18

CarrierName: FedEx

AirbillNo: 7728 6981 6519

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 13

No: 3-08-01-18-111903-0025

Lab: Chemtech Consulting Group

## Lab Contact: Non-responsive based on

Lab Phone: 908-789-8900

Special Instructions: Note: 48-hour hold-time for VOCs expires at 10:30 on 8/2/18.	Shipment for Case Complete? N
Analysis Key: Trace VOC=Trace VOCs by SOM02.4, Moisture=Moisture	Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## USEPA CLP COC (REGION COPY)

DateShipped: 01-Aug-18

CarrierName: FedEx

AirbillNo: 7728 7098 8970

## CHAIN OF CUSTODY RECORD

Shiloh Church Road/VA

Case #: 47768

Cooler #: 14

No: 3-08-02-18-104036-0028

Lab: Chemtech Consulting Group

Lab Contact: [REDACTED] Non-responsive based on

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-0718-SS09-0000-00	C0AF5	Soil/ START [REDACTED] Non-resp	Grab	ICP-PCBs(21)	1440 (None) (1)	SCR	08-01-2018 11:00	Field Sample
SCR-0718-SS12-0000-00	C0AF8	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21), TAL SVOA(21)	1455 (None), 1456 (None), 1457 (None), 1458 (None), 1460 (None) (5)	SCR	08-01-2018 17:15	Field Sample
SCR-0718-SS12-0000-01	C0AF9	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21), TAL SVOA(21)	1462 (None), 1463 (None), 1464 (None), 1465 (None), 1467 (None) (5)	SCR	08-01-2018 17:20	Field Duplicate of [M]C0AF8
SCR-0718-SB08-0102-00	C0AG0	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21), TAL SVOA(21), ICP-PCBs(21)	1469 (None), 1470 (None), 1471 (None), 1472 (None), 1474 (None), 1475 (None) (6)	SCR	08-01-2018 13:00	Field Sample
SCR-0718-SB08-1415-00	C0AG1	Soil/ START [REDACTED] Non-resp	Grab	Trace VOC(21), Moisture(21), TAL SVOA(21), ICP-PCBs(21)	1476 (None), 1477 (None), 1478 (None), 1479 (None), 1481 (None), 1482 (None) (6)	SCR	08-01-2018 13:10	Field Sample
SCR-0718-SB08-04	C0AG2	Water/ START [REDACTED] Non-resp	Grab	Trace VOC(21)	1488 (HCl to pH < 2), 1489 (HCl to pH < 2), 1490 (HCl to pH < 2) (3)	SCR	08-01-2018 14:00	Trip Blank

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Sample(s) to be used for Lab QC: SCR-0718-SS12-0000-00 Tag 1460

Analysis Key: ICP-PCBs=CLP ICP-MPCBs by SOM02.4, Trace VOC=Trace VOCs by SOM02.4, Moisture=Moisture, TAL SVOA=TAL SVOCs by SOM02.4

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

**USEPA CLP COC (REGION COPY)**

DateShipped: 01-Aug-18

CarrierName: FedEx

AirbillNo: 7728 7098 8970

**CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 14

**No: 3-08-01-18-123221-0026**

Lab: Chemtech Consulting Group

Lab Contact: [REDACTED] Non-responsive based on

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-0718-SB01-0102-00	C0AD8	Soil/ START Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1332 (None), 1333 (None) (2)	SCR	07-31-2018 10:30	Field Sample
SCR-0718-SB01-1920-00	C0AD9	Soil/ START Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1339 (None), 1340 (None) (2)	SCR	07-31-2018 10:50	Field Sample
SCR-0718-SB01-3535-00	C0AE1	Soil/ START Non-resp	Grab	TAL SVOA(21)	1348 (None) (1)	SCR	07-31-2018 12:55	Field Sample
SCR-0718-SB02-2425-00	C0AE3	Soil/ START Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1355 (None), 1356 (None) (2)	SCR	07-31-2018 15:10	Field Sample
SCR-0718-SB02-0102-00	C0AE4	Soil/ START Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1362 (None), 1363 (None) (2)	SCR	07-31-2018 14:45	Field Sample
SCR-0718-SB03-0102-00	C0AE5	Soil/ START Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1369 (None), 1370 (None) (2)	SCR	07-31-2018 15:45	Field Sample
SCR-0718-SB03-1617-00	C0AE6	Soil/ START Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1376 (None), 1377 (None) (2)	SCR	07-31-2018 16:05	Field Sample
SCR-0718-SB04-0102-00	C0AE7	Soil/ START Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1383 (None), 1384 (None) (2)	SCR	08-01-2018 09:00	Field Sample
SCR-0718-SB04-1314-00	C0AE8	Soil/ START Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1390 (None), 1391 (None) (2)	SCR	08-01-2018 09:10	Field Sample
SCR-0718-SB05-0102-00	C0AE9	Soil/ START Non-resp	Grab	TAL SVOA(21), ICP-PCBs(21)	1397 (None), 1398 (None) (2)	SCR	08-01-2018 09:25	Field Sample

Special Instructions:	<b>Shipment for Case Complete? N</b>
	<b>Samples Transferred From Chain of Custody #</b>
Analysis Key: TAL SVOA=TAL SVOCs by SOM02.4, ICP-PCBs=CLP ICP-MPCBs by SOM02.4	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

USEPA CLP COC (REGION COPY)

DateShipped: 01-Aug-18

CarrierName: FedEx

AirbillNo: 7728 7098 8970

## **CHAIN OF CUSTODY RECORD**

Shiloh Church Road/VA

Case #: 47768

Cooler #: 14

No: 3-08-01-18-123221-0026

Lab: Chemtech Consulting Group

## Lab Contact:

Lab Phone: 908-789-8900

Special Instructions:	Shipment for Case Complete? N Samples Transferred From Chain of Custody #
Analysis Key: TAL SVOA=TAL SVOCs by SOM02.4, ICP-PCBs=CLP ICP-MPCBs by SOM02.4	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## USEPA CLP COC (REGION COPY)

DateShipped: 02-Aug-18

CarrierName: FedEx

AirbillNo: 7728 8029 9189

## CHAIN OF CUSTODY RECORD

Shiloh Church Road/VA

Case #: 47768

Cooler #: 15

No: 3-08-02-18-103954-0027

Lab: Bonner Analytical Testing Company

Lab Contact: [REDACTED] Non-responsive based on [REDACTED]

Lab Phone: 601-264-2854

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-0718-SB01-0102-00	MC0AD8	Soil/ START Non-resp	Grab	ICP-AES(21)	1331 (None) (1)	SCR	07-31-2018 10:30	Field Sample
SCR-0718-SB01-1920-00	MC0AD9	Soil/ START Non-resp	Grab	ICP-AES(21)	1338 (None) (1)	SCR	07-31-2018 10:50	Field Sample
SCR-0718-SB02-2425-00	MC0AE3	Soil/ START Non-resp	Grab	ICP-AES(21)	1354 (None) (1)	SCR	07-31-2018 15:10	Field Sample
SCR-0718-SB02-0102-00	MC0AE4	Soil/ START Non-resp	Grab	ICP-AES(21)	1361 (None) (1)	SCR	07-31-2018 14:45	Field Sample
SCR-0718-SB03-0102-00	MC0AE5	Soil/ START Non-resp	Grab	ICP-AES(21)	1368 (None) (1)	SCR	07-31-2018 15:45	Field Sample
SCR-0718-SB03-1617-00	MC0AE6	Soil/ START Non-resp	Grab	ICP-AES(21)	1375 (None) (1)	SCR	07-31-2018 16:05	Field Sample
SCR-0718-SB04-0102-00	MC0AE7	Soil/ START Non-resp	Grab	ICP-AES(21)	1382 (None) (1)	SCR	08-01-2018 09:00	Field Sample
SCR-0718-SB04-1314-00	MC0AE8	Soil/ START Non-resp	Grab	ICP-AES(21)	1389 (None) (1)	SCR	08-01-2018 09:10	Field Sample
SCR-0718-SB05-0102-00	MC0AE9	Soil/ START Non-resp	Grab	ICP-AES(21)	1396 (None) (1)	SCR	08-01-2018 09:25	Field Sample
SCR-0718-SB05-1415-00	MC0AF0	Soil/ START Non-resp	Grab	ICP-AES(21)	1403 (None) (1)	SCR	08-01-2018 09:35	Field Sample

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #
Analysis Key: ICP-AES=TAL Metals+Hg by ISM02.4 ICP-AES	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt

## USEPA CLP COC (REGION COPY)

DateShipped: 02-Aug-18

CarrierName: FedEx

AirbillNo: 7728 8029 9189

## CHAIN OF CUSTODY RECORD

Shiloh Church Road/VA

Case #: 47768

Cooler #: 15

No: 3-08-02-18-103954-0027

Lab: Bonner Analytical Testing Company

Lab Contact: [REDACTED] Non-responsive based on [REDACTED]

Lab Phone: 601-264-2854

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
SCR-0718-SB06-0102-00	MC0AF1	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1410 (None) (1)	SCR	08-01-2018 10:20	Field Sample
SCR-0718-SB07-0102-00	MC0AF2	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1417 (None) (1)	SCR	08-01-2018 10:55	Field Sample
SCR-0718-SB06-1819-00	MC0AF3	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1424 (None) (1)	SCR	08-01-2018 10:35	Field Sample
SCR-0718-SB07-1819-00	MC0AF4	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1431 (None) (1)	SCR	08-01-2018 11:05	Field Sample
SCR-0718-SS10-0000-00	MC0AF6	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1445 (None) (1)	SCR	08-01-2018 16:05	Field Sample
SCR-0718-SS11-0000-00	MC0AF7	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1452 (None) (1)	SCR	08-01-2018 16:50	Field Sample
SCR-0718-SS12-0000-00	MC0AF8	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1459 (None), 1492 (None) (2)	SCR	08-01-2018 17:15	Field Sample
SCR-0718-SS12-0000-01	MC0AF9	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1466 (None) (1)	SCR	08-01-2018 17:20	Field Duplicate of [M]MC0AF8
SCR-0718-SB08-0102-00	MC0AG0	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1473 (None) (1)	SCR	08-01-2018 13:00	Field Sample
SCR-0718-SB08-1415-00	MC0AG1	Soil/ START [REDACTED] Non-resp	Grab	ICP-AES(21)	1480 (None) (1)	SCR	08-01-2018 13:10	Field Sample

Shipment for Case Complete? N	Samples Transferred From Chain of Custody #

Sample(s) to be used for Lab QC: SCR-0718-SS12-0000-00 Tag 1459, SCR-0718-SS12-0000-00 Tag 1492

Analysis Key: ICP-AES=TAL Metals+Hg by ISM02.4 ICP-AES

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt



## US EPA Region 3 Analytical Request (ARF) Report

CT Number: CT8495Date Receipt: 07/12/2018

Sample(s) Shipping Dates

Start: 07/23/2018End: 08/17/2018ARF Status: IN PROGRESSSite: SHILOH CHURCH ROAD SITESite Activity: REMOVAL ASSESSMENT (RS)Program: SUPERFUND (RAS AND/OR DAS)Street: Non-responsive based on revised scope SHILOH CHURCH ROADCity: NATHALIEState: VA Zip: 24577Account No: 2018-T-03-N-303DC6-A38Q-RS-00SPILL ID: A38QOPERABLE UNIT: 00

EPA ID (aka CERCLIS):

QA Title:

QA Date Approved:

EPA Project Lead: CHRIS WAGNER Phone: 804-698-4164 Cell Phone #: - - E-mail: WAGNER.CHRISTINE@EPA.GOVSite Leader: Non-responsive based on revised scope Phone: Non-responsive based on revised scope Cell Phone #: Non-responsive based on revised scope E-mail: Non-responsive based on revised scopeRequest Preparer: Non-responsive based on revised scope Phone: Non-responsive based on revised scope Cell Phone #: Non-responsive based on revised scope E-mail: Non-responsive based on revised scope MContractor: WESTON SOLUTIONS EPA CO/PO: RYAN PARKER Equivalent method substitution allowed: YES

Special Instructions:

WATER SAMPLES WILL INCLUDE BOTH GROUNDWATER AND SURFACE WATER SAMPLES  
SAMPLING WILL BE SPLIT INTO TWO DIFFERENT WEEKS, SOIL/SEDIMENT SAMPLING, ASSOCIATED QC SAMPLING, AND SURFACE WATER SAMPLING IS SCHEDULED FOR THE WEEK OF JULY 23 GROUNDWATER SAMPLING AND POTENTIALLY ANY REMAINING SURFACE WATER SAMPLING IS SCHEDULED FOR THE WEEK OF AUGUST 13

Comments:

DAS	RAS	Lab Assigned	QTY	Matrix	Parameter	Requested Method	Accepted Method	Validation Level	Unvalidated Data Due	Final Report Due	EDD Required
	47768	CHM	50	SOIL/SEDIMENT	VOLATILE ORGANIC COMPOUNDS (VOC)	SOM02 4 (LOW/MID)	SOM02 4 (LOW/MID)	M3	21	45	Y
	47768	CHEM	50	SOIL/SEDIMENT	SEMIVOLATILES (SVOCS)	SOM02 4	SOM02 4	M3	21	45	Y
	47768	CHEM	50	SOIL/SEDIMENT	PCB AROCLORS	SOM02 4	SOM02 4	M3	21	45	Y
	47768	BON	50	SOIL/SEDIMENT	METALS (TOTAL)	ISM02 4 ICP-AES	ISM02 4 ICP-AES	IM2	21	45	Y
	47768	CHEM	9	WATER	VOLATILE ORGANIC COMPOUNDS (VOC)	SOM02 4 (LOW/MID)	SOM02 4 (LOW/MID)	M3	21	45	Y
	47768	CHEM	9	WATER	SEMIVOLATILES (SVOCS)	SOM02 4	SOM02 4	M3	21	45	Y
	47768	CHEM	9	WATER	PCB AROCLORS	SOM02 4	SOM02 4	M3	21	45	Y
	47768	BON	9	WATER	METALS (TOTAL)	ISM02 4 ICP-AES	ISM02 4 ICP-AES	IM2	21	45	Y
	47768	BON	9	WATER	MERCURY (TOTAL)	ISM02 4	ISM02 4	IM2	21	45	Y
	47768	CHEM	8	DRINKING WATER	VOLATILE ORGANIC COMPOUNDS (VOC) TRACE	SOM02 4 (TRACE)	SOM02 4 (TRACE)	M3	21	45	Y



## US EPA Region 3 Analytical Request (ARF) Report

CT Number: CT8495Date Receipt: 07/12/2018Sample(s) Shipping DatesStart: 07/23/2018End: 08/17/2018ARF Status: IN PROGRESS

DAS	RAS	Lab Assigned	QTY	Matrix	Parameter	Requested Method	Accepted Method	Validation Level	Unvalidated Data Due	Final Report Due	EDD Required
	47768	CHEM	8	DRINKING WATER	SEMIVOLATILES (SVOCS)	SOM02 4	SOM02 4	M3	21	45	Y
	47768	CHEM	8	DRINKING WATER	PCB AROCLORS	SOM02 4	SOM02 4	M3	21	45	Y
	47768	BON	8	DRINKING WATER	METALS (TOTAL)	ISM02 4 ICP-MS	ISM02 4 ICP-MS	IM2	21	45	Y
	47768	BON	8	DRINKING WATER	MERCURY (TOTAL)	ISM02 4	ISM02 4	IM2	21	45	Y
	47768	CHEM	9	QC BLANKS(FIELD, EQUIP, TRIP, RIN)	VOLATILE ORGANIC COMPOUNDS (VOC) TRACE	SOM02 4 (TRACE)	SOM02 4 (TRACE)	M3	21	45	Y
	47768	CHEM	5	QC BLANKS(FIELD, EQUIP, TRIP, RIN)	SEMIVOLATILES (SVOCS)	SOM02 4	SOM02 4	M3	21	45	Y
	47768	CHEM	5	QC BLANKS(FIELD, EQUIP, TRIP, RIN)	PCB AROCLORS	SOM02 4	SOM02 4	M3	21	45	Y
	47768	BON	5	QC BLANKS(FIELD, EQUIP, TRIP, RIN)	METALS (TOTAL)	ISM02 4 ICP-AES	ISM02 4 ICP-AES	IM2	21	45	Y
	47768	BON	5	QC BLANKS(FIELD, EQUIP, TRIP, RIN)	MERCURY (TOTAL)	ISM02 4	ISM02 4	IM2	21	45	Y
	47768	BON	9	WATER	METALS (DISSOLVED)	ISM02 4 ICP-AES	ISM02 4 ICP-AES	IM2	21	45	Y
	47768	BON	9	WATER	MERCURY (DISSOLVED)	ISM02 4	ISM02 4	IM2	21	45	Y
	47768	BON	5	QC BLANKS(FIELD, EQUIP, TRIP, RIN)	METALS (DISSOLVED)	ISM02 4 ICP-AES	ISM02 4 ICP-AES	IM2	21	45	Y
	47768	BON	5	QC BLANKS(FIELD, EQUIP, TRIP, RIN)	MERCURY (DISSOLVED)	ISM02 4	ISM02 4	IM2	21	45	Y
	47768	BON	50	SOIL/SEDIMENT	MERCURY (TOTAL)	ISM02 4	ISM02 4	IM2	21	45	Y

**ESAT DATA VALIDATION EVALUATION CHECKLIST**  
**Contract # EP-W-13-023**

TDF #: 0818132

Revision: 0

Case #: 47768

SDG: C0AD9

Site Name: Shiloh Church Road

Parameter(s): VOA, SVOA, ARO

Method(s): SOM02.4

Laboratory: Chemtech Consulting Group (CHM)

Reviewer: Non-responsive based on revised scope

Date Submitted to EPA: 9/27/2018

EPA RPM/OSC: Chris Wagner

Number of hours spent on review: 18 hours.

cc: Non-responsive based on revised scope (Weston)

Number of Samples/Aliquots: 20/40

Validation Level/Stage: M3/S4VEM

EDD: Yes

<u>CRITERIA</u>	<u>YES</u>	<u>NO</u>	<u>COMMENTS</u>
Format according to Region III protocol	_____	_____	_____
Clarity of report	_____	_____	_____
Qualifiers applied correctly	_____	_____	_____
Consistency between narrative and data summary form(s)	_____	_____	_____
Error-free transcription	_____	_____	_____

**EFFICIENCY OF CONTRACTOR**

Approval recommended for current submission	_____	_____	_____
Time spent on review is reasonable	_____	_____	_____
Technical Evaluation	_____	EPA Oversight	_____

<u>ESD OVERSIGHT DATES</u>	<u>TPO</u>	<u>Oversight</u>	<u>ESAT</u>
Received at EPA	_____		
Oversight assigned	_____		
Oversight received	_____	_____	
Oversight completed	_____		
Feedback given	_____		
Mailed to RPM	_____		_____

# Data Validation Checklist

Task Order #: 0002	TDF #: 0818132	Revision #: 0	Case/DAS#: 47768
Site Name: Shiloh Church Road		SDG #: C0AD9	
Analysis Type: VOA, SVOA, ARO		SOW #: SOM02.4	
Reviewer: <small>Non-responsive based on revised</small>			
CLP Laboratory Code: CHM			

Peer Reviewer: \_\_\_\_\_

Due Date:

## Data Validation Checklist - General

CRITERIA	CHECK	COMMENTS
<b>EPA Oversight Checklist</b>		
TDF #	<input type="checkbox"/>	
Case #	<input type="checkbox"/>	
SDG #	<input type="checkbox"/>	
Site Name	<input type="checkbox"/>	
Laboratory	<input type="checkbox"/>	
EPA CLP TPO	<input type="checkbox"/>	
EPA OSC/RPM	<input type="checkbox"/>	
Validation Type	<input type="checkbox"/>	
<b>Narrative</b>		
Report Header	<input type="checkbox"/>	
Report Footer	<input type="checkbox"/>	
<b>Overview</b>		
Laboratory	<input type="checkbox"/>	
Analytical method	<input type="checkbox"/>	
Analytical services program	<input type="checkbox"/>	
NFG reference	<input type="checkbox"/>	
Validation level	<input type="checkbox"/>	
Data package receipt date	<input type="checkbox"/>	
<b>Criteria</b>		
Qualifier list	<input type="checkbox"/>	
<b>Appendix A</b>		
Regional COC	<input type="checkbox"/>	
EPA ARF	<input type="checkbox"/>	
<b>Appendix B</b>		
Laboratory narrative	<input type="checkbox"/>	
<b>Appendix C</b>		
EXES report	<input type="checkbox"/>	

General Comments:

Peer Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

# Data Validation Checklist

Task Order #: 0002	TDF #: 0818132	Revision #: 0	Case/DAS#: 47768
Site Name: Shiloh Church Road		SDG #: C0AD9	
Analysis Type: VOA, SVOA, ARO		SOW #: SOM02.4	
Reviewer: <small>Non-responsive based on revised 4/2013</small>			
CLP Laboratory Code: CHM			

## Technical - Organics

Section	Check	Comments
Overview	<input type="checkbox"/>	
Matrix and # of samples	<input type="checkbox"/>	
Field QC samples	<input type="checkbox"/>	
Summary	<input type="checkbox"/>	
Major problems	<input type="checkbox"/>	
Minor problems	<input type="checkbox"/>	
Notes	<input type="checkbox"/>	
Compounds below CRQL	<input type="checkbox"/>	
Blank contaminants	<input type="checkbox"/>	
Field Duplicates	<input type="checkbox"/>	
Field/Trip Blanks	<input type="checkbox"/>	
Dilutions	<input type="checkbox"/>	
Carryover	<input type="checkbox"/>	
Manual integration	<input type="checkbox"/>	
TICs	<input type="checkbox"/>	
SSRs/Form Is	<input type="checkbox"/>	
EDD	<input type="checkbox"/>	

DV Item	Check	Qualifier Applied	Comments
Preservation/Holding Time	<input type="checkbox"/>		
Instrument Performance Check	<input type="checkbox"/>		
Initial Calibration	<input type="checkbox"/>		
Continuing Calibration	<input type="checkbox"/>		
Blanks	<input type="checkbox"/>		
DMCs/Surrogates	<input type="checkbox"/>		
MS/MSDs	<input type="checkbox"/>		
LCS/LCSDs	<input type="checkbox"/>		
Internal Standards	<input type="checkbox"/>		
Other:	<input type="checkbox"/>		

General Comments:

Peer Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_